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A CHECKLIST OF THE MILLIPEDS OF MEXICO AND CENTRAL AMERICA

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UNITED STATES NATIONAL MUSEUM BULLETIN 266

A Checklist of the Millipeds of Mexico and Central America

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This work forms number 266 of the *Bulletin* series.

Frank A. Taylor
Director, United States National Museum

U.S. GOVERNMENT PRINTING OFFICE
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INTRODUCTION

The milliped fauna of Mexico and Central America is very poorly known. Records of it are scattered through a large number of papers, only two of which apply to the area in its entirety. The first of these was by Henri Saussure and Alois Humbert, in 1872, and contained a catalog which was rather brief, needless to say, of the centipeds and millipeds then known from North and South America. The second comprehensive publication was by R. I. Pocock, on the same groups in Mexico and Central America, appearing in the Biologia Centrali-Americana from 1903 to 1910. Not only did this paper list all the previously known milliped species of these regions, many with supplemental descriptions, illustrations, and new locality records, but it added illustrated descriptions of 87 new ones and, for the first time, included complete keys to the various classification categories then in use. This paper today remains the outstanding systematic work on the Diplopoda of the area included in this checklist.

Since 1910 only four other noteworthy papers have been published, all on smaller portions of the area. 1.--*The Millipeds of Central America*, R. V. Chamberlin, in 1922, recataloged the known species and added many new ones, but did not include any Mexican forms. 2.--*On Mexican Millipeds*, same author, in 1943, cataloged the Mexican species he had previously described and added new ones. 3.--*Myriapoden aus El Salvador*, O. Kraus, 1954, cataloged previously known species, with new locality records, and described new ones. 4.--*The Millipeds of Panama*, H. F. Loomis, 1964, cataloged previously known species, with new locality records, described new ones, and gave keys to all categories as well as a bibliography of papers relating to the Panamanian species. This is the only extensive bibliography that has appeared on Mexican or Central American Diplopoda. Besides these four papers and the two previously mentioned, a total of more than 200 smaller ones apply to the area.

Today this scattered literature contains descriptions and records of over 750 more or less well-known species, but this number is only a small part of the undiscovered ones inhabiting this vast warm-temperate to tropical area.

A major reason for the backward state of our knowledge of the millipeds of this region, or most of its parts, probably is that none of the eight countries ever has produced a recognized diplopod taxonomist or any outstanding collectors, other than Drs. O. Bolivar and F. Bonet, of Mexico City, on whose collection Chamberlin based his Mexican paper in 1943. Thus foreign taxonomists and collectors have been the principal

contributors to the advances that have been made in our understanding and classification of this group.

The present checklist has been prepared to overcome some of the difficulties of studying the millipeds of these countries, as presented by the dispersed literature and lack of bibliographies to it. In general, this checklist follows the arrangement of the admirable *Checklist of the Millipeds of North America*, by R. V. Chamberlin and R. L. Hoffman, and adopts the basic classification system they proposed on pages 7 and 8, except as altered later by the junior author to combine the orders Spirostreptida and Cambalida, with the latter reduced to a suborder. As in that checklist, keys to all classification categories through families have been included here.

Citations throughout this checklist, except where they do not apply to the area involved, have been reduced to the last name of the author, followed by the year of publication. Where two or more publications by the same author occurred in the same year, each is indicated by a letter added to the date, i.e., 1935a, 1935b, etc. Full citations for these abbreviations are given in the bibliography which lists the references applicable to the class Diplopoda in Mexico and Central America.

Where a change or changes have occurred in the use of the original name of a genus or species, such changes are cited in chronological order under the current name. In a few cases this results in making it appear that the last author changed the immediately preceding name, whereas his change may have been in relation to a still earlier one. When it is essential to determine this point, examination of the last publication involved usually will settle the matter.

A few new synonyms and other nomenclatorial changes have been presented on the basis of my personal knowledge or of information communicated by Drs. N. B. Causey and R. L. Hoffman, credit for such information being shown in each case.

The depository of the holotype specimen of each species is named wherever possible. Dr. Hoffman graciously assumed the task of supplying the name of the depository of all species where the author could not do so. His familiarity with milliped types seen during past visits to European museums greatly aided in this and the many names he supplied are all followed by his parenthesized last initial.

Because so few of the species are known from more than one or two localities, no general statements on distribution have been given. Instead, type and paratype localities are shown, and all other published localities are listed, with the name of the recorder and the place of record indicated as for other bibliographic citations.

Special thanks are due Dr. R. L. Hoffman for reviewing manuscript of this checklist, for his participation in naming type depositories, and for help in numerous other ways. Grateful acknowledgment is made to Dr. N. B. Causey for her encouragement and aid in various ways, and to Dr. Ralph E. Crabill, Jr., for suggesting improvements in the checklist and for providing bibliographic and other data not available to me.

CHECKLIST

Class DIPLOPODA

KEY TO THE SUBCLASSES OF DIPLOPODA

1. Body soft; segments few, 9 or 10, with dense tufts of peculiarly shaped setae and a brush of very long setae in last segment; males without gonopods ..... PSELAPHOGNATHA
   Body usually well chitinized; segments 14 to very many; setae simple, if present, not in dense tufts or brushes; males with gonopods ..... CHILOGNATHA

Subclass PSELAPHOGNATHA
Order POLYXENIDA

KEY TO THE FAMILIES OF POLYXENIDA

1. Eyes present; last antennal joint much smaller than 7th joint; segments with two transverse rows of bristles along posterior border ..... POLYXENIDAE
   Eyes absent; last antennal joint approximating 7th joint in length; segments with one transverse row of longer bristles along posterior border ..... LOPHOPROCTIDAE

Family LOPHOPROCTIDAE

Genus ALLOPROCTINUS Jeekel 1963b, p. 156.

Alloproctus Silvestri 1948b, p. 217, preoccupied.

TYPE SPECIES: *Alloproctus guineensis* Silvestri, by original designation.

Alloproctinus anisorhabdus Conde and Terver 1964, p. 19.

TYPE: Conde Collection, Univ. of Nancy.

TYPE LOCALITY: Guatemala.

Genus LOPHOPROCTINUS Silvestri 1948b, p. 217.

TYPE SPECIES: *Lophoproctinus inferus* Silvestri, by original designation.

Lophoproctinus diversunguis Silvestri 1949, p. 3.

TYPE: Depository not known.

TYPE LOCALITY: Orizaba, Veracruz, Mexico.

Lophoproctinus mexicanus Silvestri 1949, p. 1.

TYPE: Depository not known.

TYPE LOCALITY: Jalapa, Veracruz, Mexico.

Lophoproctinus notandus Silvestri 1949, p. 4.
TYPE: Location unknown.
TYPE LOCALITY: San Francisco, Veracruz, Mexico.

Family POLYXENIDAE

Genus **BARROXENUS** Chamberlin 1940a, p. 3.

TYPE SPECIES: *Barroxenus panamanus* Chamberlin, by original designation.
Barroxenus panamanus Chamberlin 1940a, p. 3.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone, Panama.

Genus **POLYXENUS** Latreille 1802, p. 45.

TYPE SPECIES: *Scolopendra lagura* Linnaeus, by monotypy.
Polyxenus poecilus Chamberlin 1923a, p. 400.
TYPE: Mus. Calif. Acad. Sci., no. 1256.
TYPE LOCALITY: Isla Santa Inéz Sur, Golfo de California, Baja California, Mexico.
PARATYPE LOCALITIES: Puerto Bellandra, Isla Carmen; Isla Monserrate, Golfo de California, Baja California, Mexico.

Subclass CHILOGNATHA

KEY TO SUPERORDERS OF CHILOGNATHA

1. Gonopods of male modified from one or both pairs of legs at caudal end of body; legs of 7th segment not modified ..... PENTAZONIA
   Gonopods of male modified from at least one pair of legs of 7th segment.
2. First legs of 7th segment of male not modified; eight pairs of legs in front of gonopods ..... COLOBOGNATHA
   First legs of 7th segment of male modified into gonopods; seven pairs of legs in front of gonopods ..... HELMINTHOMORPHA

Superorder PENTAZONIA

KEY TO ORDERS OF PENTAZONIA

1. Body short, composed of 14 to 16 segments, and contractible into a ball ..... GLOMERIDA
   Body elongate, composed of 19 to 21 segments, not contractible into a ball ..... GLOMERIDESMIDA

Order GLOMERIDA

Family GLOMERIDAE

Genus GLOMERIS Latreille 1802, p. 44.

TYPE SPECIES: *Oniscus marginatus* Villers, by monotypy?

Glomeris boneti Chamberlin 1943b, p. 69.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Parque Nacional de Zempoala, Morelos, Mexico.

Causey 1964c, and Hoffman in letter of November 1964 have expressed the opinion that this species probably belongs in the genus *Glomeroides*.

Genus GLOMEROIDES Chamberlin 1922, p. 60.

TYPE SPECIES: *Glomeroides centralis* Chamberlin by original designation.

Glomeroides caecus Causey 1964c, p. 65.

TYPE: Mus. Comp. Zool.

TYPE AND PARATYPE LOCALITY: Sótano de Huitzmolotitla, about 2 km. southwest of Tlamaya, which is 10 km. northeast of Xilitla, San Luis Potosí, Mexico.

Glomeroides centralis Chamberlin 1922, p. 60.

TYPE: U.S. Nat. Mus., no. 856.

TYPE LOCALITY: Trece Aguas, Guatemala.

Glomeroides promiscus Causey 1964c, p. 65.

TYPE: Mus. Comp. Zool.

TYPE LOCALITY: Sótano de Gómez Farías, 5 km. east of Gómez Farías, Tamaulipas, Mexico.

PARATYPE LOCALITIES: Unnamed caves nos. 3 and 7, Rancho de Cielo, elev. 1150 m., 16 km. northwest of Gómez Farías, Tamaulipas, Mexico.

Order GLOMERIDESMIDA

Family GLOMERIDESMIDAE

Genus GLOMERIDESMUS Gervais 1844a, p. 61.

TYPE SPECIES: *Glomeridesmus porcellus* Gervais, by monotypy.

Glomeridesmus barricolens Chamberlin 1940a, p. 4.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone, Panama.

Glomeridesmus bicolor Loomis 1964a, p. 11.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Almirante, Bocas del Toro, Panama.

PARATYPE LOCALITY: El Valle, Coclé, Panama.

Glomeridesmus centralis Chamberlin 1922, p. 61.
TYPE: U.S. Nat. Mus., no. 862.
TYPE LOCALITY: Actelá, Guatemala.
Glomeridesmus circularis Loomis 1964a, p. 12.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Finca Lerida, near Boquete, Chiriquí, Panama.
PARATYPE LOCALITY: Almirante, Bocas del Toro, Panama.
Glomeridesmus latus Loomis 1961, p. 78.
TYPE: U.S. Nat. Mus., no. 2655.
TYPE LOCALITY: Cerro Campana, Panama.
Glomeridesmus parvior Chamberlin 1940a, p. 4.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone, Panama.
OTHER LOCALITY: Piña area, Canal Zone, Panama, Loomis 1961.
Glomeridesmus rotundatus Loomis 1964a, p. 13.
TYPE: Chicago Nat. Hist. Mus.
TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro, Panama.

Superorder HELMINTHOMORPHA

KEY TO ORDERS OF HELMINTHOMORPHA

1. Body composed of 18 to 22 segments; sternites, pleurites, and tergites completely fused without trace of sutures; tergites usually produced laterally into keels; eyes always absent; second legs of 7th segment of male not modified as gonopods ..... POLYDESMIDA
   Body composed of 30 or more (rarely 20, 26, or 28) segments; the body rings less complete, the sternites being either free or set off by distinct sutures; eyes usually present, sometimes lost in cave forms 2
2. Terminal segment of body with 1 to 3 pairs of spinnerets; either one or both pairs of legs of 7th segment of males modified into gonopods; sternites free from the pleurotergites, the latter usually with long setae ..... CHORDEUMIDA
   Terminal segment of body without spinnerets; either both pairs of legs of 7th segment modified as gonopods, or one pair missing; sternites usually fused with pleurotergites 3
3. Stipites of gnathochilarium broadly in contact behind the laminae linguales ..... JULIDA
   Stipites of gnathochilarium separated for their entire length by the mentum and laminae linguales 4
4. Third segment closed ventrally, the 5th segment with a single pair of legs ..... SPIROBOLIDA

Third segment open ventrally, the 4th and following segments closed; 5th segment with two pairs of legs ..... SPIROSTREPTIDA

Order POLYDESMIDA

KEY TO SUBORDERS OF POLYDESMIDA

1. Opening of sternal gonopod socket more or less constricted between the gonopods, the coxae of which are entirely free of each other ..... PARADOXOSOMATIDEA

   Opening of sternal gonopod socket not medially constricted; coxae of gonopods connected to each other by a ligament or pseudosternite, or else broadly in contact along the median surfaces. POLYDESMIDEA

Suborder POLYDESMIDEA

KEY TO MEXICAN AND CENTRAL AMERICAN FAMILIES OF POLYDESMIDEA

1. Body capable of being tightly rolled into a sphere or a thick, laterally compressed disk 2

   Body incapable of being tightly rolled 5

2. Pores not on the lateral keels but located high on the sides of the dorsum; some of the anterior keels with special flanges on inner or ventral side ..... DORSOPORIDAE

   Pores, if present, always on the lateral keels; ventral surface of keels without special flanges 3

3. Surface of segments strongly hispid, irregularly roughened, tubercular, or a combination of these; supplementary margin of segments fimbriate or crenate; gonopods with large subglobose coxae partially enclosing the distal elements ..... CYRTODESMIDAE

   Surface of segments seldom conspicuously hispid or generally greatly roughened, at most with a few broad seried tubercles; supplementary margin unbroken or lacking; distal elements of gonopods rising at or near the apex of the relatively small non-inclusive coxae 4

4. Posterior portion of segments usually sharply marked off into elongate rectangular areas; pores obviously present at or near middle of keels ..... ONISCODESMIDAE

   Segments lacking posterior rectangular areas; pores absent or minute and obscure, partially hidden by overlapping metazonite of preceding segment ..... SPHAERIODESMIDAE

5. Segment 1 with anterior margin expanded forward over head, its margin divided into rounded lobes, serrations, or subquadrate areas . 6

Segment 1 with anterior margin slightly or not expanded forward and not divided into lobes, serrations, or quadrate areas 9

6. Pores opening through special tubercles on or near the outer margin of the keels .....STYLODESMIDAE

Pores not on special tubercles but opening through channels in outer margin of keels or from their upper surface 7

7. Anterior border of segment 1 and outer margins of keels transparent, with opaque intrusions from inner surface .....CRYPTODESMIDAE

Margins of segment 1 and of keels opaque, similar to inner surface .8

8. Outer and posterior margins of keels with prominent seta-bearing teeth .....PERIDONTODESMIDAE

Outer and posterior margins of keels usually somewhat lobed but not prominently serrate .....CHYTODESMIDAE

9. Seminal canal of male gonopod widening into a distinct vesicle or ampulla near its distal extremity .....POLYDESMIDAE

Seminal canal not distally widened or modified as above 10

10. Lateral keels with pores on ventral surface; outer margins developed into two or three large acute lobes; outer margin of segment 1 lobed somewhat like keels .....TRIDONTOMIDAE

Keels with pores on outer edge or dorsal surface; outer margins not developed into large lobes; segment 1 with outer margins not specially lobed 11

11. Body shape suggestive of *Polydesmus;* number of segments 18-21; living animals very active .....TRICHOPOLYDESMIDAE

Body shape not suggestive of *Polydesmus;* segments 20, 19 in males of *Hypsiloporus* (Comodesmidae); animals rather sluggish 12

12. Body small, 10 mm. or less long; sides of segment 2 extending below those of segments 1 and 3; dorsum setose; coxae of gonopods large and enclosing much of distal joints .....COMODESMIDAE

Size medium to large; segment 2 not extending below segments 1 and 3; dorsum rarely with conspicuous setae; coxae of gonopods not enlarged or enclosing distal joints 13

13. Pores on dorsal surface of keels which have rather thin, unrimmed outer margins that are irregularly dentate or tubercular.
PLATYRHACIDAE

Pores opening from more or less thickened outer rim of the keels which may have several small teeth but is not otherwise irregular or tubercular 14

14. Last segment broadly rounded behind .....EURYURIDAE

Last segment conical at apex 15

15. Stigmata displaced anteriorly above the legs so that the posterior stigma is located above the anterior coxa, and the anterior stigma is placed in the transverse segmental constriction in contact with the prozonite .....HOLISTOPHALLIDAE

Stigmata not displaced, occupying the normal position 16

16. Gonopod coxa without solenite; telopodite with large oval or elongate cavity in mesal face containing many setae.
RHACHODESMIDAE

Gonopod coxa with solenite which projects into a narrow groove at base of telopodite 17

17. Usually broad, compact forms, the W/L ratio usually 18% or greater, body widest near middle in males, near caudal end in females; sensory cones of antennae not separated or paired; 6th antennal joint without an external sensory pit; solenite of gonopod coxa originating from a circular socket well removed from distal edge of coxa; prefemora of walking legs normally with acute distal spine ..... XYSTODESMIDAE

Narrower forms, typically with reduced and well-separated keels, the W/L ratio usually 18% or less, body usually widest near head in both sexes; sensory cones of antennae usually separated into two pairs in larger forms; 6th joint with a prominent external distal sensory pit; solenite of gonopod coxa located in a notch on distal edge of coxa; prefemora of walking legs normally without acute spines ..... CHELODESMIDAE

Family CHELODESMIDAE

Genus **ALOCODESMUS** Silvestri 1896a, p. 5.

TYPE SPECIES: *Alocodesmus angustatus* Silvestri, by monotypy.

Alocodesmus angustatus Silvestri 1896a, p. 5.

Alocodesmus dromeus Chamberlin 1922, p. 48; Loomis 1964a, p. 16.

TYPE: Torino Mus.

TYPE LOCALITY: Given as Darien, but Carl 1914, p. 897, says the holotype came from Punta Sabana, Darien Prov., Panama.

Alocodesmus silvestri (Attems).

Leptodesmus (Desmoleptus) silvestri Attems 1931, p. 23; Loomis 1964a, p. 130.

TYPE: Male and female syntypes in Naturh. Mus. Wien. (H)

TYPE LOCALITY: Panama.

Genus **ATYLOPHOR** Chamberlin 1922, p. 49.

TYPE SPECIES: *Atylophor rafaelanus* Chamberlin, by original designation.

Atylophor rafaelanus Chamberlin 1922, p. 50.

TYPE: U.S. Nat. Mus., no. 849.

TYPE LOCALITY: San Rafael, Guatemala. There are two localities by this name, the smaller is about 15 km. west of Guatemala City, the other about 30 km. southwest of Jalapa, and it is not known which is the type locality.

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Genus **CHONDRODESMUS** Silvestri 1897b, p. 13.

Dirhabdophallus Pocock 1909, p. 161; Carl 1914, p. 886.

TYPE SPECIES: *Chondrodesmus armatus* Silvestri, by monotypy.

Chondrodesmus acanthurus (Peters).

Polydesmus (Oxyurus) acanthurus Peters 1864, p. 532; Carl 1914, p. 972.

TYPE: Probably Zool. Mus. Berlin.

TYPE LOCALITY: "Veragua" (probably Veraguas Prov.), Panama.

Chondrodesmus acuticollis Attems 1931, p. 47.

TYPE: Depository not given.

TYPE LOCALITY: Acajutla, El Salvador.

OTHER LOCALITIES: Bebedero, Costa Rica (Attems 1933). In 7 departments of El Salvador (Kraus 1954b).

Chondrodesmus alidens Chamberlin 1922, p. 46.

TYPE: U.S. Nat. Mus., no. 857.

TYPE LOCALITY: La Ceiba, Honduras.

Chondrodesmus allenae Loomis 1959b, p. 2.

TYPE: U.S. Nat. Mus., no. 2666.

TYPE LOCALITY: Escuela Agricola Panamericana, Zamorano, near Tegucigalpa, Honduras.

Original spelling of the species name was "alleni" but R. L. Hoffman pointed out that since the species was named for Mrs. Paul Allen the name should be feminine.

Chondrodesmus atrophus Chamberlin 1925, p. 42.

TYPE: Mus. Comp. Zool.

TYPE LOCALITY: Ft. Sherman, Canal Zone.

OTHER LOCALITIES: Monte Lirio, Canal Zone; Juan Días, Panama Prov., Panama.

Chondrodesmus ensiger (Pocock).

Dirhabdophallus ensiger Pocock 1909, p. 165; Attems 1938, p. 86.

TYPE: British Mus.

TYPE LOCALITY: Omilteme, Guerrero, Mexico.

PARATYPE LOCALITY: Xautipa, Guerrero, Mexico.

Chondrodesmus euliotus Chamberlin 1933, p. 21.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Chitaria, Costa Rica.

Chondrodesmus falciphallus Chamberlin 1933, p. 20.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Parismina, Costa Rica.

Chondrodesmus frauenfeldianus (Humbert and Saussure).

Polydesmus frauenfeldianus Humbert and Saussure 1870, p. 172.

Leptodesmus frauenfeldianus Silvestri 1896a, p. 5; Carl 1914, p. 972.

TYPE: Mus. Hist. Nat. Geneve.

TYPE LOCALITY: Colombia.

OTHER LOCALITIES: Punta Sabana; forests of the rivers Cianatí and Lara, Darien Prov., Panama (Silvestri 1896a).

Chondrodesmus granosus (Carl).

Leptodesmus plataleus granosus Carl 1902, p. 602.

Dirhabdophallus granosus Pocock 1909, p. 164; Chamberlin 1922, p. 47.

TYPE: Mus. Hist. Nat. Geneve.

TYPE LOCALITY: San José, Costa Rica.

OTHER LOCALITIES: La Uruca (Pocock 1909); Hamburg Farm, Limón, Costa Rica.

Chondrodesmus hoffmanni (Peters).

Rhacophorus hoffmanni Peters 1864, p. 537.

Dirhabdophallus (?) *hoffmanni* Pocock 1909, p. 165; Chamberlin 1922, p. 48.

TYPE: Zool. Mus. Berlin (H)

TYPE LOCALITY: Costa Rica.

Chondrodesmus montanus (Pocock).

Dirhabdophallus montanus Pocock 1909, p. 163; Chamberlin 1922, p. 47.

TYPE: British Mus.

TYPE LOCALITY: Volcán de Agua, Guatemala.

OTHER LOCALITIES: Five localities in 3 departments of El Salvador (Kraus 1954b).

Chondrodesmus murphyi Chamberlin 1946, p. 147.

TYPE: American Mus. Nat. Hist.

TYPE LOCALITY: Isla San José, Pearl Archipelago, Panama.

Chondrodesmus nannus Chamberlin 1943b, p. 58.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Chilpancingo, Guerrero, Mexico.

Chondrodesmus orientalis Kraus 1954b, p. 309.

TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: Conchagua, Dept. La Union, El Salvador.

PARATYPE LOCALITIES: Same, and La Union, Dept. La Union; Laguna Aramuaca and Laguna de Jocotal, Dept. San Miguel, El Salvador.

Chondrodesmus panamenus Chamberlin 1922, p. 46.

Chondrodesmus panamenus Chamberlin 1925, p. 42.

Chondrodesmus chamberlini Hoffman 1950b, p. 70; Loomis 1964a, p. 16.

TYPE: Mus. Comp. Zool., cat. no. 5023.

TYPE AND PARATYPE LOCALITY: Panama.

OTHER LOCALITY: Barro Colorado Island, Canal Zone (Loomis 1961).

Chondrodesmus pittieri Loomis 1961, p. 83.

TYPE: U.S. Nat. Mus., no. 2635.

TYPE LOCALITY: Puerto Obaldía, Panama; (probably Coclé rather than San Blas Province).

Chondrodesmus rodriguezi (Brolemann).

Leptodesmus rodriguezi Brolemann 1900, p. 103.

Dirhabdophallus rodriguezi Pocock 1909, p. 164; Chamberlin 1922, p. 47.
Chondrodesmus nicaraguae Chamberlin 1924, p. 174; Loomis 1950, p. 165.
TYPE: Mus. Nat. Hist. Natur. Paris (H)
TYPE LOCALITY: Guatemala.
OTHER LOCALITIES: San José, and Surubres, near San Mateo, Costa Rica (Brolemann 1905); Purulhá, Guatemala (Pocock 1909); Nicaragua?, collected in bananas from Nicaragua at Port of New York (Chamberlin 1924).

Chondrodesmus sabachanus Chamberlin 1938a, p. 174.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Sabacha Cave, Tekax, Yucatan, Mexico.
OTHER LOCALITY: Mugeres Island, Yucatan, Mexico (Chamberlin 1952a). Probably Isla Mujeres, near Puerto Juárez, Yucatan, Mexico.

Chondrodesmus singularis Chamberlin 1922, p. 44.
TYPE: Mus. Comp. Zool., cat. no. 5022.
TYPE LOCALITY: Puerto Limón, Costa Rica.
The specimen from Puerto Limón, Costa Rica, that Attems 1901, p. 85, identified as his South American *Leptodesmus carinovatus* (see Pocock 1909, p. 165, and Jeekel 1963a, p. 127) more probably was *C. singularis*.

Chondrodesmus spatulatus (Pocock).
Dirhabdophallus spatulatus Pocock 1909, p. 165; Attems 1938, p. 86.
TYPE: British Mus.
TYPE LOCALITY: Omilteme, Guerrero, Mexico.

Chondrodesmus tuberculifer Chamberlin 1922, p. 45.
TYPE: U.S. Nat. Mus., no. 847.
TYPE LOCALITY: La Ceiba, Honduras.

Genus **ETHOPHALLUS** Chamberlin 1933, p. 19.

TYPE SPECIES: *Ethophallus cervantes* Chamberlin, by original designation.

Ethophallus cervantes Chamberlin 1933, p. 20.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Cervantes, Costa Rica.

Genus **EUTYPORACHIS** Pocock 1909, p. 168.

TYPE SPECIES: *Eutyporachis tessellatus* Pocock, by original designation.

Eutyporachis oltramarei (Carl).
Leptodesmus oltramarei Carl 1902, p. 600.
TYPE: Mus. Hist. Nat. Geneve.
TYPE LOCALITY: Guatemala.

Eutyporachis tessellatus Pocock 1909, p. 169.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Senahú, Alta Verapaz, Guatemala.

Genus **ISIDRONA** Attems 1933, p. 267.

TYPE SPECIES: *Isidrona forficula* Attems, by monotypy.

Isidrona forficula Attems 1933, p. 268.

TYPE: Natur. Mus. Wien. (H)

TYPE LOCALITY: San Isidro, Costa Rica.

Genus **PHYLACTOPHALLUS** Pocock 1909, p. 166.

Allarithmus Attems 1933, p. 265. New synonymy, suggested by R.L. Hoffman.

TYPE SPECIES: *Phylactophallus stenomerus* Pocock, by original designation.

Phylactophallus parvulus (Attems).

Allarithmus parvulus Attems 1933, p. 265.

TYPE: Natur. Mus. Wien. (H)

TYPE LOCALITY: Irazu, 2,200 m., Costa Rica.

PARATYPE LOCALITIES: LaCarpintera and San Isidro, Costa Rica.

Phylactophallus stenomerus Pocock 1909, p. 166.

TYPE: British Mus.

TYPE LOCALITY: Irazu, Costa Rica.

Genus **PROLETUS** Attems 1931, p. 36.

TYPE SPECIES: *Proletus foetidus* Attems, by monotypy.

Proletus foetidus Attems 1931, p. 36.

TYPE: Natur. Mus. Wien. (H)

TYPE LOCALITY: Panama.

Genus **SCHISTIDES** Chamberlin 1922, p. 51.

TYPE SPECIES: *Schistides atopophallus* Chamberlin, by original designation.

Schistides atopophallus Chamberlin 1922, p. 51.

TYPE: U.S. Nat. Mus., no. 850.

TYPE LOCALITY: San Juan Puebla, Honduras.

Genus **SOLAENORHABDUS** Hoffman 1950b, p. 70.

TYPE SPECIES: *Cyclorhabdus contortus* Brolemann, by original designation.

Solaenorhabdus contortus (Brolemann).

Cyclorhabdus contortus Brolemann 1900, p. 98.

Leptodesmus contortus Carl 1902, p. 607; Hoffman 1950b, p. 70.

Habrodesmus uncinatus Kraus 1954b, p. 307; new synonymy suggested by R. L. Hoffman and approved by O. Kraus.

TYPE: Mus. Nat. Hist. Natur., Paris (H)

TYPE LOCALITY: Guatemala.

OTHER LOCALITY: Finca San Jorge, near Santa Ana, Dept. Santa Ana, El Salvador (Kraus 1954).

Genus **TRICHOMORPHA** Silvestri 1897c, p. 11.

Typophallus Chamberlin 1940a, p. 10: Loomis 1964a, p. 17.
Desmacrides Chamberlin 1940a, p. 11; Loomis 1964a, p. 17.
TYPE SPECIES: *Trichomorpha elegans* Silvestri, by monotypy.

Trichomorpha capillata Loomis 1964a, p. 17.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: West of Finca Palo Santo, near Nueva California, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Barca area and Casita Alta, Finca Lerida, near Boquete, Chiriquí Prov.; Chilibrillo Cave, near Chilibre, Panama Prov., Panama.

Trichomorpha evidens (Chamberlin).

Typophallus evidens Chamberlin 1940a, p. 11; Loomis 1964a, p. 18.
Trichomorpha fratrellus Chamberlin 1947c, p. 64; Loomis 1964a, p. 18.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Barro Colorado Island, Canal Zone.
OTHER LOCALITIES: Summit, Canal Zone (Chamberlin 1947c); "Pacific Side," and Barro Colorado Island, Canal Zone (Loomis 1961).

Trichomorpha folium (Brolemann). New Combination.

Leptodesmus folium Brolemann 1903, p. 139.
Camptomorpha folium Attems 1938, p. 73.
TYPE: Mus. Nat. Hist. Natur., Paris (H)
TYPE LOCALITY: Cocos Island, Costa Rica.

Trichomorpha nidicola Chamberlin 1925, p. 42.

Trichomorpha extrema Chamberlin 1925, p. 43; Loomis 1964a, p. 18.
TYPE: Mus. Comp. Zool.
TYPE LOCALITY: Barro Colorado, Canal Zone.
OTHER LOCALITY: Same (Loomis 1961).

Trichomorpha panamica Chamberlin 1925, p. 43.

Trichomorpha recta Chamberlin 1925, p. 43; Loomis 1964a, p. 19.
Desmacrides dichrus Chamberlin 1940a, p. 12; Loomis 1964a, p. 19.
Trichomorpha kraussi Chamberlin 1947c, p. 63; Loomis 1961, p. 84.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.
OTHER LOCALITIES: Same (Chamberlin 1940a, Loomis 1961); Summit (Chamberlin 1947c); Frijoles, and Piña area (Loomis 1961), Canal Zone. El Valle, Coclé Prov., and Cerro Campana, Panama Prov., Panama (Loomis 1961).

Trichomorpha tacarcuna Loomis 1964b, p. 182.

TYPE: U.S. Nat. Mus., no. 2983.
TYPE AND PARATYPE LOCALITY: Rio Tacarcuna, elev. 1,900 ft., Darien Prov., Panama.

Family CHYTODESMIDAE

Genus **DOCODESMIELLA** Loomis 1961, p. 80.

TYPE SPECIES: *Docodesmiella insularis* Loomis, by original designation.

Docodesmiella insularis Loomis 1961, p. 81.

TYPE: U.S. Nat. Mus., no. 2634.

TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.

Docodesmiella magna Loomis 1964a, p. 20.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Finca Lerida, near Boquete, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Same, and Cerro Punta, Chiriquí Prov.; Almirante, Bocas del Toro Prov., Panama.

Docodesmiella spathulata Loomis 1964a, p. 21.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: "Casita Alta," Finca Lerida, near Boquete, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Same, and other nearby areas; near Nueva California, Chiriquí Prov., Panama.

Genus **PTYXODESMUS** Loomis 1964a, p. 24.

TYPE SPECIES: *Ptyxodesmus spiculatus* Loomis, by original designation.

Ptyxodesmus spiculatus Loomis 1964a, p. 24.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Cerro Azul, near "Goofy Lake," Panama Prov., Panama.

Genus **TRICHODESMIELLA** Loomis 1964a, p. 25.

TYPE SPECIES: *Trichodesmiella multiloba* Loomis, by original designation.

Trichodesmiella multiloba Loomis 1964a, p. 26.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Finca Lerida, near Boquete, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Same and near by.

Family COMODESMIDAE

Genus **HYPSILOPORUS** Loomis 1961, p. 104.

TYPE SPECIES: *Hypsiloporus proclivis* Loomis, by original designation.

Hypsiloporus erosus Loomis 1964a, p. 27.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: El Valle, Coclé Prov., Panama.

Hypsiloporus montanus Loomis 1964a, p. 28.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: "Casita Alta," Finca Lerida, near Boquete, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Same, and Cerro Punta; Finca Palo Santo, near Nueva California, Chiriquí Prov., Panama.

Hypsiloporus proclivis Loomis 1961, p. 105.

TYPE: U.S. Nat. Mus., no. 2645.

TYPE LOCALITY: Barro Colorado Island, Canal Zone.

OTHER LOCALITIES: Same, and Madden Lake Dam, Panama Prov., Panama.

Hypsiloporus serratus Loomis 1964a, p. 29.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Genus **INODESMUS** Cook 1896, p. 25.

Lasiodesmus Silvestri 1908, p. 575; Loomis 1934, p. 64.

TYPE SPECIES: *Inodesmus jamaicensis* Cook, by monotypy.

Inodesmus globulosus Loomis 1964a, p. 30.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Las Cumbres, Panama Prov., Panama.

Family CRYPTODESMIDAE

Genus **DIAPHANACME** Loomis 1964a, p. 31.

TYPE SPECIES: *Diaphanacme latus* Loomis, by original designation.

Diaphanacme latus Loomis 1964a, p. 32.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: El Valle, Coclé Prov., Panama.

PARATYPE LOCALITIES: Same, and Almirante, Bocas del Toro Prov., Panama.

Family CYRTODESMIDAE

Genus **CRYPTURODESMUS** Silvestri 1897a, p. 1.

Katantodesmus Attems 1900, p. 385; Pocock 1909, p. 116.

TYPE SPECIES: *Crypturodesmus targioni* Silvestri, by monotypy.

Crypturodesmus targioni Silvestri 1897a, p. 1.

TYPE: Mus. Zool. Torino.

TYPE LOCALITY: Mexico.

In the copy of Silvestri's paper (loc. cit.), which he sent me, he had canceled "Messico" in the title and in the species habitat as well, and had written "Brasile" in both places. No other collections of the species have been reported and it seems most likely that it is truly Brazilian.

Genus CYRTODESMUS Gervais 1847, p. 92.

Oncodesmus Cook 1896, p. 28.

Cyliocyrtus Cook 1898, p. 458, in part.

Trigonostylus Brolemann 1898a, p. 273, in part.

Peltedo Chamberlin 1940a, p. 8; Loomis 1964a, p. 34.

Oncodesmoides Kraus 1954a, p. 41; Loomis 1964a, p. 34.

TYPE SPECIES: *Polydesmus velutinus* Gervais and Goudot, by monotypy.

Cyrtodesmus archimedes (Chamberlin).

Peltedo archimedes Chamberlin 1940a, p. 8.

Oncodesmoides angulatus Loomis 1961, p. 87; Loomis 1964a, p. 37.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.

OTHER LOCALITIES: Canal Zone: Fort Sherman; Frijoles; Piña area (Loomis 1961). Panama: Almirante, Bocas del Toro Prov.; El Valle, Coclé Prov.; Juan Días, Panama Prov. (Loomis 1961).

Cyrtodesmus bicolor Loomis 1964a, p. 37.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: West of Finca Palo Santo, near Nueva California, Chiriquí Prov., Panama.

Cyrtodesmus bifurcus Loomis 1964a, p. 38.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Cyrtodesmus confluentus Loomis 1964a, p. 40.

TYPE: U.S. Nat. Mus., no. 2801.

TYPE LOCALITY: Changuinola district, Bocas del Toro Prov., Panama.

Cyrtodesmus coronatus Loomis 1964a, p. 42

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Cyrtodesmus dentatus Loomis 1964a, p. 43.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Finca Lerida, near Boquete, Chiriquí Prov., Panama.

Cyrtodesmus depilis Loomis 1964a, p. 44.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Finca Lerida, near Boquete, Chiriquí Prov., Panama.

Cyrtodesmus granosus (Gervais and Goudot).

Polydesmus granosus Gervais and Goudot 1844, p. 28.

Cyrtodesmus granosus Gervais 1847, p. 93.

Oncodesmus granosus Cook 1896, p. 28.

TYPE: British Mus., but not found in recent years.

TYPE LOCALITY: Colombia.

Although reported from Darien Prov., Panama, it is doubtful that the identification was correct or that the species can be reidentified (see Loomis 1964a, p. 34).

Cyrtodesmus hispidulosus Loomis 1964a, p. 46.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Finca Palo Santo, near Nueva California, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Ten mi. south of El Volcán, and at Finca Lerida, near Boquete, Chiriquí Prov., Panama.

Cyrtodesmus lyrapes Loomis 1964a, p. 47.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

PARATYPE LOCALITIES: Same, and west of Finca Palo Santo, near Nueva California, Chiriquí Prov., Panama.

Cyrtodesmus macrosetosus Loomis 1964a, p. 48.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Finca Lerida, near Boquete, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Same and adjacent regions.

Cyrtodesmus mundus Loomis 1964a, p. 49.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Finca Lerida, near Boquete, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Same and adjacent regions.

Family DORSOPORIDAE

Genus **DORSOPORUS** Loomis 1958, p. 236.

TYPE SPECIES: *Dorsoporus barroensis* Loomis, by original designation.

Dorsoporus barroensis Loomis 1958, p. 237.

TYPE: U.S. Nat. Mus., no. 2511.

TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.

Family EURYURIDAE

Genus **AMPLINUS** Attems 1899, p. 281.

Pycnotropis Carl 1914, p. 932.
Seminellogon Chamberlin 1933, p. 18.
Phinotropis, *Ptyxogon* and *Amydrinus* Chamberlin 1941e, pp. 499-500. (These are Peruvian genera.)
Sigmogonotropis Hoffman 1951, p. 240; Jeekel 1963a, p. 73.
TYPE SPECIES: *Pachyurus (Amplinus) kalonotus* Attems, by designation of Pocock 1909.

Amplinus cerroazulensis (Hoffman).
Seminellogon cerroazulensis Hoffman 1954a, p. 54; Jeekel 1963a, p. 75.
TYPE: U.S. Nat. Mus., no. 2100.
TYPE LOCALITY: Cerro Azul, near "Goofy Lake," Panama Prov., Panama.
PARATYPE LOCALITIES: Boquete, and El Volcán, Chiriquí Prov., Panama.

Amplinus chitarianus (Chamberlin).
Seminellogon chitarianus Chamberlin 1933, p. 19; Jeekel 1963a, p. 75.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Chitaria, Costa Rica.

Amplinus latzeli (Attems).
Pycnotropis latzeli Attems 1931, p. 79; Jeekel 1963a, p. 75.
TYPE: Naturh. Mus. Wien (H).
TYPE LOCALITY: Panama.

Amplinus magnus (Loomis). New combination.
Seminellogon magnus Loomis 1964a, p. 54.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: El Valle, Coclé Prov., Panama.

Amplinus panamicus (Chamberlin).
Aphelidesmus panamicus Chamberlin 1925, p. 41.
Seminellogon panamicus Loomis 1961, p. 86.
Sigmogonotropis serratus Hoffman 1951, p. 240; Jeekel 1963a, p. 75.
Seminellogon serratus Loomis 1961, p. 86. New synonymy, suggested by R. L. Hoffman.
TYPE: Mus. Comp. Zool.
TYPE LOCALITY: Headwaters of Rio Chinilla, Canal Zone.
OTHER LOCALITIES: Barro Colorado Island; Gorgona; Monte Lirio; Piña area, Canal Zone (Loomis 1961). Cana, Darien Prov. (Hoffman 1951); Cerro Campana, Panama Prov. (Loomis 1961), Panama.

Genus **APHELIDESMUS** Brolemann 1898b, p. 322.

Trachelorachis Silvestri 1898a, p. 5.
Trachelacanthe Berg 1899, p. 77.

TYPE SPECIES: *Aphelidesmus hermaphroditus* Brolemann, by monotypy.

Aphelidesmus calverti Chamberlin 1914, p. 191.

TYPE: Acad. Nat. Sci. Philadelphia.

TYPE LOCALITY: La Emilia, Costa Rica.

OTHER LOCALITIES: Puerto Limón (Chamberlin 1922), and Parismina, Costa Rica (Chamberlin 1933).

Aphelidesmus glaphyros (Attems).

Euryurus glaphyros Attems 1900, p. 279; Pocock 1909, p. 158.

TYPE: Naturh. Mus. Wien.

TYPE LOCALITY: Costa Rica.

OTHER LOCALITIES: Carrillo; Cuesta del Tablazo; and Cariblanco, Costa Rica (Brolemann 1905).

Aphelidesmus intermedius Chamberlin 1914, p. 192.

TYPE: Acad. Nat. Sci. Philadelphia.

TYPE LOCALITY: Juan Viñas, Costa Rica.

OTHER LOCALITY: San Jose, Costa Rica (Chamberlin 1933), in which paper he listed the type locality as La Emilia, actually the type locality of his *A. calverti.*

Aphelidesmus taurinus Loomis 1964a, p. 51.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Genus **POLYLEPISCUS** Pocock 1909, p. 154.

Euplinus Chamberlin 1952a, p. 578; Hoffman 1954a, p. 52.

TYPE SPECIES: *Polylepiscus stolli* Pocock, by original designation.

Polylepiscus actaeon Pocock 1909, p. 155.

TYPE: British Mus.

TYPE LOCALITY: Guatemala.

Polylepiscus burgeri Causey 1954, p. 65.

TYPE: Illinois St. Nat. Hist. Surv., Urbana.

TYPE LOCALITY: Seventeen mi. south of Simojovel, Chiapas, Mexico.

PARATYPE LOCALITY: Fifteen mi. south of Pichucalco, Chiapas, Mexico.

Polylepiscus campanulae Hoffman 1962, p. 137.

TYPE: U.S. Nat. Mus., no. 2776-D617.

TYPE AND PARATYPE LOCALITY: Seven mi. east of San Cristóbal de los Casas, on Rt. 190, Chiapas, Mexico.

Polylepiscus furcifer Pocock 1909, p. 156.

Euplinus volcanicola Chamberlin 1952a, p. 580; Hoffman 1954a, p. 53.

TYPE: British Mus.

TYPE LOCALITY: Guatemala.

OTHER LOCALITIES: Volcán Tajumulco, and El Porudnir, San Marcos, Guatemala (Chamberlin 1952a).

Polylepiscus heterosculptus (Carl).

Pachyurus heterosculptus Carl 1902, p. 635; Pocock 1909, p. 157.

TYPE: Mus. Hist. Nat. Geneve.

TYPE LOCALITY: Guatemala.

Polylepiscus heterosculptus pococki Hoffman 1954a, p. 53.

TYPE: U.S. Nat. Mus., no. 2099.

TYPE LOCALITY: Tumbala, Chiapas, Mexico.

Polylepiscus major (Chamberlin).

Aphelidesmus major Chamberlin 1952a, p. 581. New combination, suggested by R. L. Hoffman, who stated "there is no doubt it belongs in *Polylepiscus* as the 3rd species without polygonal areas."

TYPE: Chicago Mus. Nat. Hist.

TYPE LOCALITY: Escobas, opposite Puerto Barrios, Guatemala.

Polylepiscus stolli Pocock 1909, p. 155.

TYPE: British Mus.

TYPE LOCALITY: Cholhuitz, Guatemala.

Polylepiscus trimaculatus Hoffman 1954a, p. 53.

TYPE: U.S. Nat. Mus., no. 2098.

TYPE AND PARATYPE LOCALITY: Sepacuite, Guatemala.

Genus **PSEUDAMPLINUS** Hoffman 1954a, p. 51.

TYPE SPECIES: *Amplinus orphnius* Chamberlin, by original designation.

Pseudamplinus areatus (Pocock).

Amplinus areatus Pocock 1909, p. 151.

Orthomorpha areatus Cook 1911c, p. 627; Hoffman 1954a, p. 51.

TYPE: British Mus.

TYPE LOCALITY: Retalhuleu, Guatemala.

Pseudamplinus armatus (Pocock).

Amplinus armatus Pocock 1909, p. 153.

Orthomorpha armatus Cook 1911c, p. 627; Hoffman 1954a, p. 51.

TYPE: British Mus.

TYPE LOCALITY: Mexico.

Pseudamplinus constrictus (Chamberlin). New combination.

Amplinus constrictus Chamberlin 1953b, p. 67.

TYPE: Chicago Mus. Nat. Hist.

TYPE AND PARATYPE LOCALITY: West of San Pedro Sula, Honduras.

Pseudamplinus convexus (Carl).

Pachyurus convexus Carl 1902, p. 633.

Amplinus convexus Pocock 1909, p. 150.

Orthomorpha convexus Cook 1911c, p. 628; Hoffman 1954a, p. 51.

TYPE: Mus. Hist. Nat. Geneve (H)

TYPE LOCALITY: Costa Rica.

OTHER LOCALITY: Parismina, Costa Rica (Chamberlin 1933).

Pseudamplinus crenus (Chamberlin).

Amplinus crenus Chamberlin 1943b, p. 56; Hoffman 1954a, p. 51.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Near Fortín, Veracruz, Mexico. Probably Fortín de las Flores.

PARATYPE LOCALITY: Same, and Puroje, Veracruz, Mexico.

Pseudamplinus erichsoni (Brandt).

Polydesmus erichsoni Brandt 1841, p. 135.

Polydesmus (Paradesmus) erichsoni Saussure 1860, p. 293.

Polydesmus (Euryurus) erichsoni Peters 1864, p. 542.

Amplinus erichsoni Pocock 1909, p. 152.

Orthomorpha erichsoni Cook 1911c, p. 627; Hoffman 1954a, p. 51.

TYPE: Zool. Mus. Berlin (H)

TYPE LOCALITY: Mexico.

Pseudamplinus eutypus (Chamberlin).

Amplinus eutypus Chamberlin 1952a, p. 573; Hoffman 1954a, p. 51.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: El Fortín, Veracruz, Mexico. Probably Fortín de las Flores.

Chamberlin founded this species on three females with no mention being made of any male characters. However, he refers to Figure 35, which is of a male gonopod! Figure 36 is said to be of a new species which he does not describe. It is possible that both figures are of this undescribed species.

Pseudamplinus flavicornis (Pocock).

Amplinus flavicornis Pocock 1909, p. 151.

Orthomorpha flavicornis Cook 1911c, p. 627; Hoffman 1954a, p. 51.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Central America.

OTHER LOCALITY: Palenque, Chiapas, Mexico (Hoffman 1951).

Pseudamplinus intermittens (Causey).

Amplinus intermittens Causey 1954, p. 64; Hoffman 1954a, p. 51.

TYPE: Illinois St. Nat. Hist. Surv., Urbana.

TYPE LOCALITY: Fifteen mi. south of Pichucalco, Chiapas, Mexico.

Pseudamplinus klugi (Brandt).

Polydesmus klugi Brandt 1841, p. 133.

Polydesmus (Paradesmus) klugi Saussure 1860, p. 293.

Polydesmus (Euryurus) klugi Peters 1864, p. 541.

Polydesmus (Pachyurus) klugi Saussure and Humbert 1872, p. 27.

Pachyurus klugi Karsch 1881, p. 37.

Polydesmus (Paradesmus) picteti Saussure 1859, p. 325.

Amplinus klugi Pocock 1909, p. 152; Hoffman 1954a, p. 51.

TYPE: Zool. Mus. Berlin

TYPE LOCALITY: Alvarado, Veracruz, Mexico.

OTHER LOCALITIES: Córdoba; Orizaba; Panuco; Anahuac; entire east slope of plateau (Saussure 1860); Guanajuato; Jalapa (Pocock 1909); Chapulhuacan, Hidalgo (Chamberlin 1943b); La Ruina de Ventura, near Santa Rosa, Isthmus of Tehuantepec, Mexico (Chamberlin 1947b).

Pseudamplinus leon (Chamberlin).

Amplinus leon Chamberlin 1952a, p. 574; Hoffman 1954a, p. 51.

TYPE: Chicago Mus. Nat. Hist.

TYPE LOCALITY: Monterrey, Nuevo León, Mexico.

Pseudamplinus manni (Chamberlin).

Amplinus manni Chamberlin 1922, p. 41; Hoffman 1954a, p. 51.

TYPE: U.S. Nat. Mus., no. 844.

TYPE LOCALITY: La Ceiba, Honduras

PARATYPE LOCALITY: Lombardia, Honduras.

Pseudamplinus mimus (Chamberlin).

Amplinus mimus Chamberlin 1953b, p. 68.

TYPE: Chicago Mus. Nat. Hist.

TYPE LOCALITY: West of San Pedro Sula, Honduras.

Pseudamplinus niteus (Chamberlin).

Amplinus niteus Chamberlin 1922, p. 43; Hoffman 1954a, p. 51.

TYPE: U.S. Nat. Mus., no. 846.

TYPE LOCALITY: Basin of San Juan River, Costa Rica.

Pseudamplinus nitidus (Brolemann).

Platyrrhacus nitidus Brolemann 1900, p. 97.

Pachyurus nitidus Carl 1902, p. 638.

Amplinus nitidus Pocock 1909, p. 149.

Orthomorpha nitidus Cook 1911c, p.627; Hoffman 1954a, p. 51.

TYPE: Mus. Hist. Nat. Geneve.

TYPE AND PARATYPE LOCALITY: Guatemala.

OTHER LOCALITY: See under next species.

Pseudamplinus orphnius (Chamberlin).

Amplinus orphnius Chamberlin 1922, p. 42; Hoffman 1954a, p. 51.

TYPE: U.S. Nat. Mus., no. 845.

TYPE LOCALITY: La Ceiba, Honduras.

PARATYPE LOCALITY: Livingston, Guatemala.

OTHER LOCALITIES: Escobas, Dept. Izabal, Guatemala (Chamberlin 1952a). Middlesex, British Honduras; Rio Santa Ana, Honduras; La Jolla Grande, Dept. Chimaltenango, Guatemala (Hoffman 1951). Specimens from last locality reidentified by Hoffman as *P. nitidus*.

Pseudamplinus palicaudatus (Attems).

Pachyurus palicaudatus Attems 1901, p. 98.

Amplinus palicaudatus Pocock 1909, p. 150.

Orthomorpha palicaudatus Cook 1911c, p. 627; Hoffman 1954a, p. 51.

TYPE: Zool. Mus. Hamburg.

TYPE AND PARATYPE LOCALITY: La Joya, Chiapas, Mexico.

OTHER LOCALITIES: Quezaltenango; Cholhuitz, Guatemala (Pocock 1909). Depts. Chaltenango and Santa Ana, El Salvador (Kraus 1954b).

Pseudamplinus pococki (Cook).

Orthomorpha pococki Cook 1911c, p. 627; Hoffman 1954a, p. 51.

Amplinus klugi Pocock 1909, p. 152 (in part).

TYPE: British Mus.

TYPE LOCALITY: Jalapa, Mexico.

PARATYPE LOCALITY: Pocock (1909) saw a specimen from Guanajuato at the same time he assigned the above type specimen to *Amplinus klugi* but whether or not it is the true *klugi* or *pococki* is not known.

Pseudamplinus schmidti (Chamberlin).

Amplinus schmidti Chamberlin 1952a, p. 576; Hoffman 1954a, p. 51.

TYPE: Chicago Mus. Nat. Hist.

TYPE AND PARATYPE LOCALITY: Volcán Tajumulco, Guatemala.

Pseudamplinus serratus (Kraus). New combination.

Amplinus serratus Kraus 1954b, p. 311.

TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: Rain forest of Monte Cristo, Metapan Mts., Dept. Santa Ana, El Salvador.

PARATYPE LOCALITIES: Same, and apex of Monte Cristo.

Pseudamplinus tajumulco (Chamberlin).

Amplinus tajumulco Chamberlin 1952a, p. 576; Hoffman 1954a, p. 51.

TYPE: Chicago Mus. Nat. Hist.

TYPE LOCALITY: Volcán Tajumulco, Guatemala.

Pseudamplinus tapachulae (Chamberlin).

Amplinus tapachulae Chamberlin 1943b, p. 57.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Tapachula, Chiapas, Mexico.

Pseudamplinus triramus (Pocock).

Amplinus triramus Pocock 1909, p. 153.

Orthomorpha triramus Cook 1911c, p. 627; Hoffman 1954a, p. 51.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.

Pseudamplinus vergelanus (Chamberlin). New combination.

Amplinus vergelanus Chamberlin 1943b, p. 57.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: El Vergel, Chiapas, Mexico.

Pseudamplinus xelitlus (Chamberlin).

Amplinus xelitlus Chamberlin 1943b, p. 57; Hoffman 1954a, p. 51.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Xilitla, San Luis Potosí, Mexico.

OTHER LOCALITY: Valles, San Luis Potosí, Mexico (Causey 1954).

Pseudamplinus zuniulus (Chamberlin).

Amplinus zuniulus Chamberlin 1952a, p. 577; Hoffman 1954a, p. 51.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Pinca (Pica?) Monte Cristo, Volcán Zunil, Guatemala.

Family HOLISTOPHALLIDAE

This family, erected by Silvestri when he described the single included genus, is being reviewed by R. L. Hoffman, who has added, in his treatment, the other genera which appear here.

Genus **DUOPORUS** Cook 1901, p. 403.

TYPE SPECIES: *Duoporus barretti* Cook, by original designation.

Duoporus barretti Cook 1901, p. 404.

TYPE: Probably U.S. Nat. Mus.

TYPE AND PARATYPE LOCALITY: Cuernavaca, Morelos, Mexico.

Genus **ELCARMENIA** Kraus 1954, p. 328.

TYPE SPECIES: *Elcarmenia engelhardi* Kraus, by monotypy.

Elcarmenia engelhardi Kraus 1954b, p. 328.

TYPE: Senckenberg Mus., Frankfurt.

TYPE AND PARATYPE LOCALITY: Finca El Carmen, San Vincente volcanos, Dept. San Vincente, El Salvador.

Genus **HOLISTOPHALLUS** Silvestri 1909, p. 2.

TYPE SPECIES: *Holistophallus peregrinus* Silvestri, by original designation.

Holistophallus peregrinus Silvestri 1909, p. 4.

TYPE: Torino Mus.

TYPE LOCALITY: Tabasco, Mexico.

OTHER LOCALITIES: Quirigua; Cacao Trece Aguas, Guatemala (Chamberlin 1922). Progreso, San Juan Pueblo, Honduras (Chamberlin 1922).

Genus **PAMMICROPHALLUS** Pocock 1909, p. 183.

TYPE SPECIES: *Pammicrophallus ornatus* Pocock, by original designation.

Pammicrophallus ornatus Pocock 1909, p. 184.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.

Pammicrophallus pasaquinae Kraus 1954b, p. 327.

TYPE: Senckenberg Mus., Frankfurt.

TYPE AND PARATYPE LOCALITY: At km. 198 on highway from La Union after Pasaquina, Dept. La Union, El Salvador.

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Pammicrophallus pictus Pocock 1909, p. 185.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.

Genus SYNTHODESMUS Chamberlin 1922, p. 54.

TYPE SPECIES: *Synthodesmus simulans* Chamberlin, by original designation.
Synthodesmus simulans Chamberlin 1922, p. 54.
TYPE: U.S. Nat. Mus. no. 853.
TYPE LOCALITY: San Rafael, Guatemala.

Genus TUNODESMUS Chamberlin 1922, p. 52.

TYPE SPECIES: *Tunodesmus orthogonus* Chamberlin, by original designation.
Tunodesmus laminiger Chamberlin 1922, p. 53.
TYPE: U.S. Nat. Mus., no. 852.
TYPE LOCALITY: San Rafael, Guatemala.
Tunodesmus orthogonus Chamberlin 1922, p. 53.
TYPE: U.S. Nat. Mus., no. 851.
TYPE LOCALITY: San Rafael, Guatemala.

Genus ZEUCTODESMUS Pocock 1909, p. 185.

TYPE SPECIES: *Zeuctodesmus caeruleus* Pocock, by original designation.
Zeuctodesmus caeruleus Pocock 1909, p. 186.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Amula, Guerrero, Mexico.
Zeuctodesmus ferrugineus Chamberlin 1943b, p. 54.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Zitácuaro, Michoacan, Mexico.

Family ONISCODESMIDAE

Genus BARRODESMUS Chamberlin 1940a, p. 7.

TYPE SPECIES: *Barrodesmus isolatus* Chamberlin, by original designation.
Barrodesmus isolatus Chamberlin 1940a, p. 7.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.

Genus BONETESMUS (see bottom of page 111)

Genus LIGIODESMUS Pocock 1909, p. 114.

TYPE SPECIES: *Ligiodesmus pusillus* Pocock, by original designation.

Ligiodesmus pusillus Pocock 1909, p. 114.
TYPE: British Mus.
TYPE LOCALITY: Teapa, Tabasco, Mexico.

Genus LIGNYDESMUS Cook 1896, p. 28.

Mesesmus Chamberlin 1941a, p. 57.
Panamadesmus Loomis 1961, p. 89.
Huanucodesmus Loomis 1961, p. 91.
TYPE SPECIES: *Oniscodesmus rubriceps* Peters, by original designation.

Lignydesmus eutypus (Chamberlin).
Oniscodesmus eutypus Chamberlin 1940a, p. 7.
Mesesmus eutypus Chamberlin 1941a, p. 57; Loomis 1964a, p. 57.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Barro Colorado Island, Canal Zone.

Lignydesmus insulanus (Chamberlin).
Mesesmus insulanus Chamberlin 1941a, p. 57; Loomis 1964a, p. 57.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Barro Colorado Island, Canal Zone.

Lignydesmus panamanus Loomis 1961, p. 88.
TYPE: U.S. Nat. Mus., no. 2637.
TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Lignydesmus projectus Loomis 1964a, p. 57.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Finca Lerida, near Boquete, Chiriquí Prov., Panama.
PARATYPE LOCALITY: Same general region.

Lignydesmus sculptilis (Loomis).
Panamadesmus sculptilis Loomis 1961, p. 90; Loomis 1964a, p. 58.
TYPE: U.S. Nat. Mus., no. 2638.
TYPE AND PARATYPE LOCALITY: Piña area, Canal Zone.

Family PERIDONTODESMIDAE

Genus HEXODONTIA Verhoeff 1932, p. 516.

Trachyphloeus Attems 1933, p. 264.
Rhexiphloeus Attems 1940, p. 460; Hoffman 1950b, p. 71.
Parapomus (subgenus of *Apomus*) Kraus 1954b, p. 317. New synonymy.
TYPE SPECIES: *Hexodontia cordobana* Verhoeff, by original designation.

Hexodontia cordobana Verhoeff 1932, p. 518.
TYPE: Zool. Mus. Munchen (H).
TYPE LOCALITY: Cordoba, Veracruz, Mexico.

Hexodontia electa (Chamberlin).

Peridontodesmus electus Chamberlin 1914, p. 188.

Trachyphloeus electus Attems 1933, p. 265.

Rhexiphloeus electus Attems 1940, p. 460; Hoffman 1950b, p. 71.

TYPE: Acad. Nat. Sci. Philadelphia.

TYPE AND PARATYPE LOCALITY: Laguna, Juan Vinas, Costa Rica.

OTHER LOCALITIES: Cartago (Chamberlin 1922); Carpintera, Costa Rica (Attems 1933).

Hexodontia morela (Chamberlin).

Peridontodesmus morelus Chamberlin 1943b, p. 59; Hoffman 1950b, p. 71.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Chapultepec, near Cuernavaca, Morelos, Mexico.

Hexodontia zilchi (Kraus).

Apomus (Parapomus) zilchi Kraus 1954b, p. 317, illustr. New combination.

TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: Volcan los Naranjos, Dept. Santa Ana, El Salvador.

PARATYPE LOCALITIES: Same, and Finca el Paraiso, Santa Tecla, Dept. La Libertad; San Salvador, Dept. San Salvador, El Salvador.

R. L. Hoffman first called my attention to the fact that this species actually was a Peridontodesmid.

Genus **KALESMUS** Chamberlin 1943b, p. 60.

TYPE SPECIES: *Kalesmus phanus* Chamberlin, by original designation.

Kalesmus eutropis Chamberlin 1943b, p. 60.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Fortín, Veracruz, Mexico. Probably Fortín de las Flores.

Kalesmus phanus Chamberlin 1943b, p. 60.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Parque National de Zempoala, Morelos, Mexico.

Genus **MADERESMUS** Chamberlin 1943b, p. 61.

TYPE SPECIES: *Maderesmus tepoztlanus* Chamberlin, by original designation.

Maderesmus tepoztlanus Chamberlin 1943b, p. 61.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Tepoztlán, Morelos, Mexico.

Maderesmus hoogstraali (Chamberlin).

Peridontodesmus hoogstraali Chamberlin 1942a, p. 58; Chamberlin 1943b, p. 61.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Cerro Tancítaro, Michoacan, Mexico.

Genus PERIDONTODESMUS Silvestri 1896b, p. 197.

TYPE SPECIES: *Polydesmus (Scytonotus) woodianus* Humbert and Saussure, by original designation.

Peridontodesmus flagellatus Pocock 1909, p. 136.

TYPE: British Mus.

TYPE LOCALITY: Cholhuitz, Guatemala.

Peridontodesmus hirsutus Pocock 1909, p. 136.

TYPE: British Mus.

TYPE LOCALITY: Teapa, Tabasco, Mexico.

Peridontodesmus medius Chamberlin 1943b, p. 59.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Ixtapan del Oro, México, Mexico.

Peridontodesmus parvus Chamberlin 1943b, p. 59.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: LaJunta, Villa Juárez, Puebla, Mexico.

Peridontodesmus purulicus Cook 1911b, p. 470.

TYPE: U.S. Nat. Mus., no. 809.

TYPE LOCALITY: Purulhá, Baja Verapaz, Guatemala.

Peridontodesmus woodianus (Humbert and Saussure).

Polydesmus (Scytonotus) woodianus Humbert and Saussure 1869, p. 152.

Polydesmus woodianus Saussure and Humbert 1872, p. 52; Silvestri 1896b, p. 197.

TYPE: Mus. Hist. Nat. Geneve (H)

TYPE LOCALITY: Eastern Cordillera, Mexico.

Genus PINESMUS Chamberlin 1943b, p. 62.

TYPE SPECIES: *Pinesmus setosus* Chamberlin, by original designation.

Pinesmus monticolens Chamberlin 1952a, p. 558.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Volcán Tajumulco, Guatemala.

Pinesmus setosus Chamberlin 1943b, p. 62.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Desierto de los Leones, D. F., Mexico.

Pinesmus viganus Chamberlin 1952a, p. 559.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Las Vigas, Veracruz, Mexico.

Genus SIERRESMUS Chamberlin 1943b, p. 60.

TYPE SPECIES: *Sierresmus hidalgonus* Chamberlin, by original designation.

Sierresmus hidalgonus Chamberlin 1943b, p. 61.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Chapulhuacan, Hidalgo, Mexico.

Family PLATYRHACIDAE

Genus NYSSODESMUS Cook 1896, p. 53.

TYPE SPECIES: *Nyssodesmus alboalatus* Cook, by original designation.

Nyssodesmus alboalatus Cook 1896, p. 53.

TYPE: Zool. Mus. Berlin.

TYPE LOCALITY: Nicaragua.

Nyssodesmus antius (Chamberlin).

Platyrhacus antius Chamberlin 1914, p. 189; Chamberlin 1922, p. 40.

TYPE: Acad. Nat. Sci. Philadelphia.

TYPE AND PARATYPE LOCALITY: Juan Viñas, Reventazón Road, Costa Rica.

OTHER LOCALITY: Tilarán, Costa Rica (Attems 1933).

Nyssodesmus attemsi Hoffman 1960, p. 27.

TYPE: U.S. Nat. Mus., no. 2468.

TYPE LOCALITY: Puerto Armuelles, Panama.

Nyssodesmus bivirgatus (Carl).

? *Polydesmus (Odontodesmus) python* Peters 1864, p. 543.

Platyrrhacus bivirgatus Carl 1902, p. 652; Chamberlin 1922, p. 40.

TYPE: Mus. Hist. Nat. Geneve (H)

TYPE LOCALITY: San José, Costa Rica.

OTHER LOCALITIES: La Palma, and Carrillo, Costa Rica, (Chamberlin 1922); Rio Jiménez, Costa Rica (Chamberlin 1933).

Nyssodesmus concolor Loomis 1964a, p. 59.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Nyssodesmus fraternus (Carl).

Platyrrhacus fraternus Carl 1902, p. 655; Chamberlin 1922, p. 40.

Platyrhacus fraternus Hoffman 1953c, p. 256; Jeekel 1963a, p. 89.

TYPE: Mus. Hist. Nat. Geneve.

TYPE LOCALITY: San José, Costa Rica.

PARATYPE LOCALITY: Limón, Costa Rica.

OTHER LOCALITIES: La Palma, and Cachí, Costa Rica (Chamberlin 1922).

Nyssodesmus limonensis (Attems).

Platyrrhacus limonensis Attems 1900, p. 344; Chamberlin 1922, p. 39.

TYPE: Zool. Mus. Hamburg (H).

TYPE LOCALITY: Puerto Limón, Costa Rica.

Nyssodesmus mimus Chamberlin 1922, p. 38.

TYPE: Mus. Comp. Zool., cat. no. 5020.

TYPE LOCALITY: Nicaragua.

Nyssodesmus montivagus (Carl).

? Platyrhacus mexicanus Attems 1900, p. 348.

Platyrhacus montivagus Carl 1902, p. 662; Chamberlin 1922, p. 40.

Nyssodesmus valerii Chamberlin 1933, p. 16; Hoffman 1953c, p. 253.

TYPE: Mus. Hist. Nat. Geneve.

TYPE AND PARATYPE LOCALITY: Volcán de Turrialba, Costa Rica.

OTHER LOCALITIES: Carrillo and La Palma (Pocock 1909); Cachí, Reventazón Valley (Chamberlin 1914); La Carpintera (Chamberlin 1933), Costa Rica.

Nyssodesmus nicaraguanus Chamberlin 1922, p. 39.

TYPE: Acad. Nat. Sci. Philadelphia.

TYPE LOCALITY: Machucha, Nicaragua.

Nyssodesmus nigricaudus Chamberlin 1922, p. 37.

TYPE: U.S. Nat. Mus., no. 843.

TYPE LOCALITY: Costa Rica.

Nyssodesmus stenopterus (Brolemann).

Platyrhacus stenopterus Brolemann 1905, p. 343; Chamberlin 1922, p. 40.

TYPE: Mus. Nat. Hist. Natur., Paris (H).

TYPE LOCALITY: Rancho Redondo, Costa Rica.

Nyssodesmus tristani (Pocock).

Platyrhacus tristani Pocock 1909, p. 141; Chamberlin 1922, p. 39.

TYPE: British Mus.

TYPE LOCALITY: La Palma, Costa Rica.

Genus **PLATYRHACUS** Koch 1847, p. 58.

Barydesmus Cook 1896, p. 53; Hoffman 1960, p. 21.

Aymaresmus Chamberlin 1941e, p. 494; Jeekel 1963a, p. 89.

Dynesmus Chamberlin 1941e, p. 495; Jeekel 1963a, p. 89.

TYPE SPECIES: *Polydesmus scaber* Perty, by monotypy.

Platyrhacus bilineatus (Lucas).

Polydesmus bilineatus Lucas 1840, p. 523.

Polydesmus (Stenonia) bilineatus Saussure 1860, p. 532.

? Platyrhacus bilineatus Attems, 1900, p. 347.

TYPE: Not known to exist, seems not to be at Paris (H).

TYPE LOCALITY: Mexico.

Hoffman 1953c places this species in "nomen inquirendum." Doubtless a South American species (H).

Platyrhacus chapini Hoffman 1953c, p. 254.

TYPE: U.S. Nat. Mus., no. 2079.

TYPE LOCALITY: Los Siguas, Chiriquí Prov., Panama.

Platyrhacus gracilipes Loomis 1964a, p. 60.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Cerro Punta, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Same, and Finca Lerida, near Boquete, Chiriquí Prov., Panama.

Platyrhacus mexicanus (Lucas).

Polydesmus mexicanus Lucas 1840, p. 523.

Polydesmus (Stenonia) mexicanus Saussure 1860, p. 534; Attems 1900, p. 348.

TYPE: Present location unknown (H).

TYPE LOCALITY: Mexico.

Hoffman 1953c and Jeekel 1963a consider this species unidentifiable. Hoffman now thinks it may be South American.

Platyrhacus pococki Brolemann 1911a, p. 14.

Nyssodesmus pococki Chamberlin 1922, p. 40; Hoffman 1953c, p. 257.

Platyrhacus stenopterus Pocock 1909, p. 145, not Brolemann; Jeekel 1963a, p. 89.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Rancho Redondo, Costa Rica.

OTHER LOCALITIES: Cuesta del Tablazo Costa Rica (Chamberlin 1922); Volcán Irazu, Costa Rica (Attems 1933).

Platyrhacus propinquus Carl 1902, p. 665.

Nyssodesmus propinquus Chamberlin 1922, p. 40; Hoffman 1953c, p. 257.

TYPE: Mus. Hist. Nat. Geneve.

TYPE LOCALITY: Las Delicias, Santa Clara Prov., Costa Rica.

Platyrhacus riparius Carl 1902, p. 641.

Nyssodesmus riparius Chamberlin 1922, p. 40; Hoffman 1953c, p. 257.

TYPE: Mus. Hist. Nat. Geneve.

TYPE AND PARATYPE LOCALITY: Rio Generál, Pacific slope, Costa Rica.

Genus **PSAMMODESMUS** Cook 1896, p. 52.

Ernostyx Chamberlin 1941e, p. 497; Hoffman 1953b, p. 301.

TYPE SPECIES: *Psammodesmus cos* Cook, by original designation.

Psammodesmus remotus Loomis 1964a, p. 62.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: El Valle, Coclé Prov., Panama.

Psammodesmus schmitti Loomis and Hoffman. In Hoffman 1953b, p. 301.

TYPE: U.S. Nat. Mus., no. 2016.

TYPE LOCALITY: Puerto Obaldia, Darien Prov., Panama.

PARATYPE LOCALITY: Cana, Darien Prov., Panama.

OTHER LOCALITY: Pequene River, just east of Canal Zone, Panama.

Genus TIRODESMUS Cook 1896, p. 53.

TYPE SPECIES: *Polydesmus (Stenonia) fimbriatus* Peters, by original designation.

Tirodesmus biolleyi (Carl).

Platyrhacus biolleyi Carl 1902, p. 658.

Tirodesmus fimbriatus Chamberlin 1922, p. 36 (not Peters).

Nyssodesmus albomarginis Chamberlin 1933, p. 16; Hoffman 1953c, p. 235; Jeekel 1963a, p. 91.

TYPE: Mus. Hist. Nat. Geneve.

TYPE LOCALITY: Las Delicias, Costa Rica.

OTHER LOCALITIES: La Palma and Cariblanco, Costa Rica (Pocock 1909); San Juan del Norte and Machucha, Nicaragua (Chamberlin 1922).

Tirodesmus fimbriatus (Peters).

Polydesmus (Stenonia) fimbriatus Peters 1864, p. 543; Cook 1896, p. 53.

Platyrrhacus fimbriatus Attems 1899, p. 347; Carl 1914, p. 975; Jeekel 1963a, p. 91.

TYPE: Location unknown.

TYPE LOCALITY: Veragua, Panama; probably the Province of Veraguas.

Family POLYDESMIDAE

Genus POLYDESMUS Latreille 1802, p. 44.

TYPE SPECIES: *Julus complanatus* Linnaeus, by monotypy.

Polydesmus angustus Latzel 1884, p. 262.

Polydesmus complanatus angustus Latzel 1884, p. 262.

Polydesmus verhoeffi angustus Attems 1940, p. 12.

Polydesmus chapultepecus Chamberlin 1943b, p. 69. New synonymy by R. L. Hoffman.

TYPE: Naturh. Mus. Wien.

A European species reported from Mexico by Jawlowski 1930.

OTHER LOCALITIES: Chapultepec Park, D. F., and Llano de Salazar, Morelos, Mexico (Chamberlin 1943b).

Family RHACHODESMIDAE

Genus ACERATOPHALLUS Carl 1902, p. 608.

TYPE SPECIES: *Aceratophallus unicolor* Carl, by monotypy.

Aceratophallus calcehtokanus Chamberlin 1938a, p. 178.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Xkyc Cave, Calcehtok, Yucatan, Mexico.

PARATYPE LOCALITIES: Spukil and Sazich Caves, Calcehtok, Yucatan, Mexico.

Aceratophallus dux Chamberlin 1914, p. 193.

TYPE: Acad. Nat. Sci. Philadelphia.

TYPE LOCALITY: Juan Viñas, Costa Rica.

OTHER LOCALITIES: Reported from six departments of El Salvador (Kraus 1954b).

Aceratophallus guatemalae Chamberlin 1947b, p. 31.

TYPE: Acad. Nat. Sci. Philadelphia.

TYPE AND PARATYPE LOCALITY: Piedras Negras, Guatemala.

Aceratophallus hoctunanus Chamberlin 1938a, p. 176.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Hoctun Cave, Hoctun, Yucatan, Mexico.

Aceratophallus lamellifer (Brolemann).

Aceratophallus unicolor lamellifer Brolemann 1905, p. 346; Pocock 1909, p. 183.

TYPE: Mus. Nat. Hist. Natur., Paris (H).

TYPE AND PARATYPE LOCALITY: San José, Costa Rica.

OTHER LOCALITIES: Chitaria, and Parismina (Chamberlin 1933); Tilarán (Attems 1933), Costa Rica.

Aceratophallus maya Loomis 1964b, p. 186.

TYPE: U.S. Nat. Mus., no. 2984.

TYPE AND PARATYPE LOCALITY: Tikal, Dept. of Petén, Guatemala.

Aceratophallus oxkutzcabus Chamberlin 1938a, p. 176.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Gongora Cave, Oxkutzcab, Yucatan, Mexico.

PARATYPE LOCALITIES: Same, and Puz and Xmahit Caves, Tekax, Yucatan, Mexico.

Aceratophallus quadratus Loomis 1961, p. 92.

TYPE: U.S. Nat. Mus., no. 2639.

TYPE LOCALITY: Probably Canal Zone.

Aceratophallus sumucus Chamberlin 1956, p. 158.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Musawas, Waspuc River, Nicaragua.

Aceratophallus unicolor Carl 1902, p. 609.

TYPE: Mus. Hist. Nat. Geneve.

TYPE AND PARATYPE LOCALITY: San José, Costa Rica.

OTHER LOCALITIES: La Uruca (Pocock 1909); El Gallito (Chamberlin 1933), Costa Rica.

Genus ACUTANGULUS Attems 1899, p. 409.

TYPE SPECIES: *Polydesmus (Strongylosoma) coccineus* Saussure and Humbert, by monotypy.

Acutangulus coccineus (Humbert and Saussure).

Polydesmus (Tropisoma) coccineus Humbert and Saussure 1869, p. 152.

Polydesmus (Strongylosoma) coccineus Saussure and Humbert 1872, p. 50; Attems 1899, p. 409.

TYPE: Mus. Hist. Nat. Geneve.

TYPE AND PARATYPE LOCALITY: Orizaba, Mexico.

Acutangulus neglectus Carl 1903, p. 560.

Polydesmus (Strongylosoma) coccineus Var. Saussure and Humbert 1872, p. 51.

TYPE: Mus. Hist. Nat. Geneve.

TYPE AND PARATYPE LOCALITY: Orizaba, Mexico.

Genus METAPHALLUS Chamberlin 1952a, p. 560.

TYPE SPECIES: *Metaphallus mimus* Chamberlin, by original designation.

Metaphallus mimus Chamberlin 1952a, 562.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Chichivac, Guatemala.

Genus NEOLEPTODESMUS Carl 1903, p. 557.

Curodesmus Chamberlin 1922, p. 55; Attems 1940, p. 467.

Euphallus Chamberlin 1952a, p. 559. New synonymy by R. L. Hoffman.

TYPE SPECIES: *Polydesmus (Oxyurus) sumichrasti* Humbert and Saussure, by subsequent designation.

Neoleptodesmus aztecus (Saussure).

Polydesmus (Leptodesmus) aztecus Saussure 1859, p. 324.

Polydesmus (Oxyurus) aztecus Saussure and Humbert 1872, p. 160.

Leptodesmus aztecus Attems 1899, p. 390; Carl 1903, p. 559.

Euphallus dybasi Chamberlin 1952a, p. 560. New synonymy by R. L. Hoffman.

TYPE: Mus. Nat. Hist. Geneve.

TYPE LOCALITY: Volcán de Tuxtla, Mexico.

PARATYPE LOCALITIES: Plateau of Puebla, and peak of Orizaba, Mexico.

OTHER LOCALITY: El Fortín, Veracruz, Mexico. Probably Fortín de las Flores.

Neoleptodesmus dispersus Chamberlin 1943b, p. 53.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Puroje Nuevo, Veracruz, Mexico.

PARATYPE LOCALITIES: Same, and Tepoztlán and Oaxtepec, Morelos, Mexico.

Neoleptodesmus geniculatus Kraus 1954b, p. 325.

TYPE: Senckenberg Mus., Frankfurt.

TYPE AND PARATYPE LOCALITY: Rainforest of Monte Cristo, Metapan Mts., Dept. of Santa Ana, El Salvador.

Neoleptodesmus guatemalensis (Chamberlin).

Curodesmus guatemalensis Chamberlin 1922, p. 55; Attems 1940, p. 469.

TYPE: U.S. Nat. Mus., no. 854.

TYPE LOCALITY: San Rafael, Guatemala.

Neoleptodesmus orizabae (Humbert and Saussure).

Polydesmus (Oxyurus) orizabae Humbert and Saussure 1869, p. 151.

Leptodesmus orizabae Attems 1899, p. 389; Carl 1903, p. 557.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Orizaba, Mexico.

Neoleptodesmus salvadorensis Kraus 1954b, p. 322.

TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: "Institute," San Salvador, Dept. San Salvador, El Salvador.

PARATYPE LOCALITIES: Same, and Depts. La Paz, Sonsonate, La Libertad, San Vincente, and La Union, El Salvador.

Neoleptodesmus sinuatus Kraus 1954b, p. 326.

TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: Laguna de las Ninfas, Dept. Ahuachapan, El Salvador.

PARATYPE LOCALITIES: Same, and Finca El Carmen, San Vincente Volcanos, Dept. San Vincente, El Salvador.

Neoleptodesmus sumichrasti (Humbert and Saussure).

Polydesmus (Oxyurus) sumichrasti Humbert and Saussure 1869, p. 151.

Polydesmus (Oxyurus) intermedius Humbert and Saussure 1869, p. 151; Carl 1903, p. 558.

TYPE: Mus. Hist. Nat. Geneve.

TYPE AND PARATYPE LOCALITY: Orizaba, Mexico.

Neoleptodesmus vermiformis (Saussure).

Polydesmus (Strongylosoma) vermiformis Saussure 1859, p. 326; Carl 1903, p. 557.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Eastern Cordillera, Mexico.

Neoleptodesmus vulcani Kraus 1954b, p. 324.

TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: Santa Ana Volcanos, near Buenos Aires, Dept. Santa Ana, El Salvador.

PARATYPE LOCALITIES: Same, and Laguna Verde and Laguna de las Ninfas, Dept. Ahuachapan, El Salvador.

Genus PARARHACHISTES Pocock 1909, p. 177.

TYPE SPECIES: *Pararhachistes elevatus* Pocock, by original designation.

Pararhachistes amblus Chamberlin 1942b, p. 13.

TYPE: Escuela Nat. Mexico City.

TYPE AND PARATYPE LOCALITY: Cueva de Jutxlahuaca, Colotlipa, Guerrero, Mexico.

Pararhachistes elevatus Pocock 1909, p. 178.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.

Pararhachistes galeanae Chamberlin 1943b, p. 52.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Laguna de Labradores, Galeana, Nuevo León, Mexico.

Pararhachistes potosinus Chamberlin 1943b, p. 53.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Tamazunchale, San Luis Potosí, Mexico.

Pararhachistes vertebratus Pocock 1909, p. 178.

TYPE: British Mus.

TYPE LOCALITY: Amula, Guerrero, Mexico.

Genus PHOROSITUS Chamberlin 1952a, p. 562.

TYPE SPECIES: *Phorositus granulifer* Chamberlin, by original designation.

Phorositus granulifer Chamberlin 1952a, p. 562.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Volcan Tajumulco, Guatemala.

Genus RHACHIDOMORPHA Saussure 1860, p. 326.

Microrhachis Carl 1903, p. 556; Pocock 1909, p. 174.

TYPE SPECIES: *Polydesmus (Rhachidomorpha) tarasca* Saussure, by monotypy.

Rhachidomorpha adunca (Saussure and Humbert).

Polydesmus (Rhachidomorpha) aduncus Saussure and Humbert 1872, p. 158; Attems 1899, p. 410.

Polydesmus (Rhachidomorpha) uncinatus Humbert and Saussure 1869, p. 152 (*uncinatus* preoccupied).

Rhachis (Microrhachis) uncinatus Carl 1903, p. 556; Pocock 1909, p. 175.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Eastern Cordillera, Mexico.

OTHER LOCALITIES: Monte Azul, Cerro de Azcamela, Sierra de Agua in the Eastern Cordillera, México (Pocock 1909).

Rhachidomorpha aurantium Chamberlin 1952a, p. 564.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: El Fortín, Veracruz, Mexico. Probably Fortín de las Flores.

Rhachidomorpha tarasca (Saussure).

Polydesmus (Rhachidomorpha) tarasca Saussure 1860, p. 327; Attems 1899, p. 410.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Córdoba, Mexico.

Rhachidomorpha vicinus Chamberlin 1943b, p. 52.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Eighteen mi. west of Perote, Veracruz, Mexico.

PARATYPE LOCALITY: Same, and 18 mi. north.

Genus **RHACHODESMUS** Cook 1895, p. 4.

Polydesmus (Rachis) Saussure 1859, p. 326 (original spelling).

Rhachis Attems 1899, p. 326.

Rhachis Carl 1903, p. 554, new subgenus (preoccupied).

TYPE SPECIES: *Polydesmus (Rachis) viridis* Saussure, by monotypy, see Cook 1896, p. 6.

Rhachodesmus viridis (Saussure).

Polydesmus (Rachis) viridis Saussure 1859, p. 326.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE AND PARATYPE LOCALITY: Orizaba, Mexico.

Genus **SAKOPHALLUS** Chamberlin 1942a, p. 59.

TYPE SPECIES: *Sakophallus simplex* Chamberlin, by original designation.

Sakophallus simplex Chamberlin 1942a, p. 59.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Cerro Tancítaro, Michoacan Mexico.

Genus **STRONGYLODESMUS** Saussure 1859, p. 327.

Ceuthauxus Chamberlin 1942b, p. 12. New synonymy.

Study of a topotype male of Chamberlin's *C. morelus*, and of a new species closely related to his *C. potosianus*, confirm this synonymy.

TYPE SPECIES: *Strongylodesmus cyaneus* Saussure, by monotypy.

Strongylodesmus cruzanus (Chamberlin). New combination.

Ceuthauxus cruzanus Chamberlin 1943b, p. 51.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Near Fortín, Veracruz, Mexico. Probably Fortín de las Flores.

Strongylodesmus cyaneus Saussure 1859, p. 327.
Strongylodesmus viridis Peters 1864, p. 547; Saussure and Humbert 1872, p. 55.
TYPE: Mus. Hist. Nat. Geneve.
TYPE AND PARATYPE LOCALITY: Orizaba, Mexico.
Strongylodesmus geddesi Pocock 1909, p. 173.
TYPE: British Mus.
TYPE LOCALITY: Mexico.
Strongylodesmus mediator (Chamberlin). New combination.
Ceuthauxus mediator Chamberlin 1947b, p. 32.
TYPE: Acad. Nat. Sci. Philadelphia, no. 9956.
TYPE LOCALITY: Pablillo, Nuevo León, Mexico.
Strongylodesmus morelus (Chamberlin). New combination.
Ceuthauxus morelus Chamberlin 1943b, p. 51.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Tepoztlán, Morelos, Mexico.
Strongylodesmus nuevus (Chamberlin). New combination.
Pararhachistes nuevus Chamberlin 1941c, p. 63.
Ceuthauxus nuevus Chamberlin 1943b, p. 51.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Ojo de Agua, Sabinas Hidalgo, Nuevo León, Mexico.
OTHER LOCALITY: Cieneguillas, Nuevo León, Mexico (Chamberlin 1947b).
Strongylodesmus palmitonus (Chamberlin). New combination.
Ceuthauxus palmitonus Chamberlin 1942b, p. 12.
TYPE: Escuela Nat. Mexico City.
TYPE LOCALITY: Gruta de Palmito, Bustamente, Nuevo León, Mexico.
Strongylodesmus potosianus (Chamberlin). New combination.
Ceuthauxus potosianus Chamberlin 1947b, p. 32.
TYPE: Acad. Nat. Sci. Philadelphia, no. 9957.
TYPE LOCALITY: Alvarez, San Luis Potosí, Mexico.

Genus TANCITARES Chamberlin 1942a, p. 58.

TYPE SPECIES: *Tancitares michoacanus* Chamberlin, by original designation.
Tancitares michoacanus Chamberlin 1942a, p. 58.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Pedregal, Tancítaro, Michoacan, Mexico.

Genus TEINORHACHIS Loomis 1961, p. 94.

TYPE SPECIES: *Teinorhachis tenuis* Loomis, by original designation.
Teinorhachis tenuis Loomis 1961, p. 95.

TYPE: U.S. Nat. Mus., no. 2640.

TYPE AND PARATYPE LOCALITY: "Probably Panama."

Genus TIPHALLUS Chamberlin 1952a, p. 566.

TYPE SPECIES: *Tiphallus aberrans* Chamberlin, by original designation.

Tiphallus aberrans Chamberlin 1952a, p. 566.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Tamazunchale, San Luis Potosí, Mexico.

Family SPHAERIODESMIDAE

Genus COLOBODESMUS Brolemann 1905, p. 347.

TYPE SPECIES: *Colobodesmus biolleyi* Brolemann, by monotypy.

Colobodesmus biolleyi Brolemann 1905, p. 350.

TYPE: Mus. Nat. Hist. Natur., Paris.

TYPE LOCALITY: San José, Costa Rica.

PARATYPE LOCALITIES: Cachí, and Cariblanco, Costa Rica.

Colobodesmus cobanus (Chamberlin). New combination suggested by R. L. Hoffman.

Sphaeriodesmus cobanus Chamberlin 1952a, p. 554.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Cobán, Guatemala.

PARATYPE LOCALITY: Alta Verapaz, Guatemala.

Colobodesmus triramus Kraus 1954b, p. 320.

TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: Finca la Yoya, km. 48 on highway behind Sonsonate, Dept. Sonsonate, El Salvador.

PARATYPE LOCALITIES: Volcán Izalco, foot of Cerro Verde (Mala Cara); Monte Cristo, Metapan Mts., Dept. Santa Ana, El Salvador.

Genus CYCLODESMUS Humbert and Saussure 1869, p. 149.

TYPE SPECIES: *Cyclodesmus aztecus* Humbert and Saussure, by monotypy.

Cyclodesmus aztecus Humbert and Saussure 1869, p. 149.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Eastern Cordillera, Mexico.

Genus CYLIONUS Cook 1898, p. 462.

TYPE SPECIES: *Sphaeriodesmus gracilis* Humbert and Saussure, by original designation.

Cylionus constrictus Pocock 1909, p. 127.

TYPE: British Mus.

TYPE LOCALITY: Volcán de Agua, Guatemala.

Cylionus gracilis (Humbert and Saussure).

Sphaeriodesmus gracilis Humbert and Saussure 1869, p. 149; Cook 1898, p. 463.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Moyoapan, Eastern Cordillera, Mexico.

Cylionus kauanus Chamberlin 1938a, p. 182.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Kaua Cave, Kaua, Yucatan, Mexico.

Genus CYPHODESMUS Peters 1864, p. 530.

TYPE SPECIES: *Oniscodesmus mexicanus* Saussure, by monotypy.

Cyphodesmus mexicanus (Saussure).

Oniscodesmus mexicanus Saussure 1859, p. 328; Peters 1864, p. 530.

TYPE: Supposed to be in Paris Mus., Cook 1898.

TYPE LOCALITY: Córdoba, Mexico.

Cyphodesmus hidalgonus Chamberlin 1943b, p. 55.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Chapulhuacan, Hidalgo, Mexico.

Genus EUSPHAERIODESMUS Brolemann 1916, p. 561.

TYPE SPECIES: *Sphaeriodesmus angustus* Pocock, by original designation.

Eusphaeriodesmus angustus (Pocock).

Sphaeriodesmus angustus Pocock 1909, p. 124; Brolemann 1916, p. 561.

TYPE: British Mus.

TYPE LOCALITY: Senahú, Alta Verapaz, Guatemala.

Eusphaeriodesmus prehensor (Pocock).

Sphaeriodesmus prehensor Pocock 1909, p. 123; Brolemann 1916, p. 606.

TYPE: British Mus.

TYPE LOCALITY: Omilteme, Guerrero, Mexico.

OTHER LOCALITIES: Oaxtepec, and Tepoztlán, Morelos, Mexico (Chamberlin 1943b).

Eusphaeriodesmus robustus (Pocock).

Sphaeriodesmus robustus Pocock 1909, p. 122.

TYPE: British Mus.

TYPE LOCALITY: San Andreas Tuxtla, Veracruz, Mexico.

Eusphaeriodesmus stylifer (Pocock).

Sphaeriodesmus stylifer Pocock 1909, p. 124; Brolemann 1916, p. 606.

TYPE: British Mus.

TYPE LOCALITY: Irazu, Costa Rica.

Genus HYBOCESTUS Hoffman 1959, p. 173.

TYPE SPECIES: *Hybocestus octonodus* Hoffman, by original designation.

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Hybocestus octonodus Hoffman 1959, p. 174.
TYPE: U.S. Nat. Mus., no. 2594.
TYPE AND PARATYPE LOCALITY: Cobán, Baja Verapaz, Guatemala.
Hybocestus plagiodon Hoffman 1959, p. 177.
TYPE: U.S. Nat. Mus., no. 2593.
TYPE AND PARATYPE LOCALITY: Trece Aguas, Guatemala.

Genus PERIDYSODESMUS Silvestri 1910, p. 357.

TYPE SPECIES: *Peridysodesmus trifidus* Silvestri, by original designation.
Peridysodesmus bifidus Silvestri 1910, p. 358.
TYPE: Location unknown.
TYPE LOCALITY: Jalapa, Veracruz, Mexico.
Peridysodesmus trifidus Silvestri 1910, p. 358.
TYPE: Location unknown.
TYPE LOCALITY: Cuernavaca, Morelos, Mexico.

Genus SPHAERIODESMUS Peters 1864, p. 529.

Glomeridesmus Saussure 1859, p. 328. Not Gervais.
TYPE SPECIES: *Glomeridesmus mexicanus* Saussure, by monotypy.
Sphaeriodesmus bukowinus Chamberlin 1952a, p. 553.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Bukowina, British Honduras.
PARATYPE LOCALITY: Double Falls, British Honduras.
Sphaeriodesmus conformans Chamberlin 1925, p. 44.
TYPE: Mus. Comp. Zool.
TYPE LOCALITY: Barro Colorado Island, Canal Zone.
OTHER LOCALITIES: Piña area, Canal Zone; Alahjuela and Juan Días, Panama Prov., Panama (Loomis 1961).
Sphaeriodesmus coriaceus Pocock 1909, p. 125.
TYPE: British Mus.
TYPE LOCALITY: San Juan, Alta Verapaz, Guatemala.
OTHER LOCALITY: Volcán Tajumulco, Guatemala (Chamberlin 1952a).
Sphaeriodesmus digitatus Pocock 1909, p. 124.
TYPE: British Mus.
TYPE LOCALITY: Volcán de Agua, Guatemala.
Sphaeriodesmus griseus Chamberlin 1943b, p. 55.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Volcán Orizaba, Puebla, Mexico.
Sphaeriodesmus hondurasanus Chamberlin 1922, p. 57.
TYPE: U.S. Nat. Mus. no. 855.
TYPE LOCALITY: San Juan Pueblo, Honduras.
PARATYPE LOCALITIES: Same and Lombardia, Honduras.

Sphaeriodesmus isolatus Chamberlin 1940a, p. 13.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.

Sphaeriodesmus longiramus Kraus 1954b, p. 319.
TYPE: Senckenberg Mus., Frankfurt.
TYPE LOCALITY: Finca San Jorge, near Santa Ana, Dept. Santa Ana, El Salvador.
PARATYPE LOCALITIES: Same and Laguna de las Ninfas, Dept. Ahuachapan; Finca El Carmen, Volcáns San Vincente, Dept. San Vincente, El Salvador.

Sphaeriodesmus longitubus Loomis 1963, p. 119.
TYPE: U.S. Nat. Mus. no. 2963.
TYPE AND PARATYPE LOCALITY: Five mi. southwest of Monterrey, on road to Chipinque Mesa, Nuevo León, Mexico.

Sphaeriodesmus medius Carl 1902, p. 675.
TYPE: Mus. Hist. Nat. Geneve.
TYPE AND PARATYPE LOCALITY: Guatemala.

Sphaeriodesmus mexicanus (Saussure).
Glomeridesmus mexicanus Saussure 1859, p. 328; Peters 1864, p. 529.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE LOCALITY: Córdoba, Mexico.
OTHER LOCALITY: Veracruz, Mexico (Cook 1898).

Sphaeriodesmus michoacanus Chamberlin 1942a, p. 57.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Cerro San Miguel, Tancítaro, Michoacan, Mexico.

Sphaeriodesmus neglectus Carl 1902, p. 676.
Glomeridesmus mexicanus Saussure 1860, p. 276 (in part).
TYPE: Mus. Hist. Nat. Geneve.
TYPE AND PARATYPE LOCALITY: Córdoba, Mexico. Carl gives only "Mexico" in his description.

Sphaeriodesmus nodulosus Kraus 1954b, p. 318.
TYPE: Senckenberg Mus., Frankfurt.
TYPE LOCALITY: Hacienda Los Planes, Metapan Mts., Dept. Santa Ana, El Salvador.

Sphaeriodesmus oniscus Pocock 1909, p. 122.
TYPE: British Mus.
TYPE LOCALITY: San Andreas Tuxtla, Veracruz, Mexico.

Sphaeriodesmus saussurei Attems 1900, p. 391.
Sphaeriodesmus mexicanus Saussure and Humbert 1872, p. 21 (in part).
TYPE: Mus. Hist. Nat. Geneve.
TYPE LOCALITY: Cerro de Escamela, Eastern Cordillera, Mexico.

Genus TAPHRODESMUS Silvestri 1910, p. 357.

TYPE SPECIES: *Taphrodesmus vestitus* Silvestri, by original designation.

Taphrodesmus vestitus Silvestri 1910, p. 357.

TYPE: Lab. Zool., Portici?

TYPE LOCALITY: Jalapa, Mexico.

Family STYLODESMIDAE

Genus AIROCAULON Loomis 1964a, p. 66.

TYPE SPECIES: *Airocaulon humerosum* Loomis, by original designation.

Airocaulon humerosum Loomis 1964a, p. 66.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Genus APSYMA Chamberlin 1943b, p. 65.

TYPE SPECIES: *Apsyma atopa* Chamberlin, by original designation.

Apsyma atopa Chamberlin 1943b, p. 65.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: San Rafael, Mexico.

Genus AUGESMUS Chamberlin 1951, p. 77.

TYPE SPECIES: *Cynedesmus varilobatus* Loomis, by original designation.

Augesmus trinus (Loomis).

Cynedesmus trinus Loomis 1959a, p. 5; 1964a, p. 67.

TYPE: U.S. Nat. Mus., no. 2936.

TYPE AND PARATYPE LOCALITY: Monte Lirio, Canal Zone.

OTHER LOCALITIES: Cerro Campana, Panama Prov., Panama (Loomis 1961); Barro Colorado Island, Canal Zone (Loomis 1964b).

Genus BOLIVARESMUS Chamberlin 1942b, p. 10.

TYPE SPECIES: *Bolivaresmus sabinus* Chamberlin, by original designation.

Bolivaresmus sabinus Chamberlin 1942b, p. 10.

TYPE: Escuela Nat. Mexico City.

TYPE LOCALITY: Cueva de los Sabinos, Valles, San Luis Potosí, Mexico.

PARATYPE LOCALITIES: Same and Cueva Chica (probably same general area, Loomis).

Genus BOTRYDESMUS Loomis 1934, p. 62.

Prionodesmus Loomis 1959a, p. 7; 1964a, p. 67.

TYPE SPECIES: *Botrydesmus lutosus* Loomis, by original designation.

Botrydesmus biramosus Loomis 1964a, p. 68.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.
Botrydesmus conifer Loomis 1964a, p. 68.
TYPE: Chicago Nat. Hist. Mus.
TYPE AND PARATYPE LOCALITY: West of Finca Palo Santo, near Nueva California, Chiriquí Prov., Panama.
Botrydesmus cryptus Chamberlin 1940a, p. 6.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Barro Colorado Island, Canal Zone.
Botrydesmus fulgens (Loomis).
Prionodesmus fulgens Loomis 1959a, p. 7.
Botrydesmus coronatus Loomis 1961, p. 96; 1964a, p. 69.
TYPE: U.S. Nat. Mus., no. 2937.
TYPE LOCALITY: Barro Colorado Island, Canal Zone.
PARATYPE LOCALITIES: Same and Cerro Campana, Panama Prov., Panama.

Genus CALYMMODESMUS Carl 1914, p. 959.

TYPE SPECIES: *Calymmodesmus andinus* Carl, by monotypy.
Calymmodesmus biensifer Loomis 1959a, p. 4.
TYPE: U.S. Nat. Mus., no. 2558.
TYPE AND PARATYPE LOCALITY: Loma Bonita, 20 km. south of Tuxtepic, Oaxaca, Mexico.
Calymmodesmus falcatus Loomis 1959a, p. 2.
TYPE: U.S. Nat. Mus., no. 2552.
TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.
Calymmodesmus formicatus Loomis 1959a, p. 2.
TYPE: U.S. Nat. Mus., no. 2555.
TYPE LOCALITY: Barro Colorado Island, Canal Zone.
PARATYPE LOCALITIES: Same and Ancon, Canal Zone.
Calymmodesmus gracilis Loomis 1959a, p. 4.
TYPE: U.S. Nat. Mus., no. 2553.
TYPE LOCALITY: Barro Colorado Island, Canal Zone.
PARATYPE LOCALITIES: Same and Madden Dam, Panama Prov., Panama.
Calymmodesmus inquinatus Causey 1960, p. 276.
TYPE: American Mus. Nat. Hist.
TYPE AND PARATYPE LOCALITY: Gruta el Salvino, near Cayuga and Puerto Barrios, Guatemala.
Calymmodesmus mexicanus Loomis 1959a, p. 5.
TYPE: U.S. Nat. Mus., no. 2554.
TYPE AND PARATYPE LOCALITY: Loma Bonita, 20 km. south of Tuxtepic, Oaxaca, Mexico.

Calymmodesmus montanus Loomis 1964b, p. 187.

TYPE: U.S. Nat. Mus., no. 2985.

TYPE AND PARATYPE LOCALITY: Monteverde, Puntarenas Prov., Costa Rica.

Calymmodesmus rettenmeyeri Loomis 1959a, p. 4.

TYPE: U.S. Nat. Mus., no. 2556.

TYPE LOCALITY: Barro Colorado Island, Canal Zone.

PARATYPE LOCALITIES: Same and Madden Dam, Panama Prov., Panama.

Calymmodesmus sodalis Schubart 1952, p. 438.

TYPE: Dept. Zool., Sao Paulo (H).

TYPE AND PARATYPE LOCALITY: Costa Rica.

Genus CATAPLEURADESMUS Loomis 1964a, p. 71.

TYPE SPECIES: *Catapleuradesmus diadematus* Loomis, by original designation.

Catapleuradesmus diadematus Loomis 1964a, p. 72.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Genus CERATESMUS Chamberlin 1942b, p. 10.

TYPE SPECIES: *Ceratesmus clarus* Chamberlin, by original designation.

Ceratesmus clarus Chamberlin 1942b, p. 10.

TYPE: Escuela Nat. Mexico City.

TYPE LOCALITY: Gruta de Atoyac, Veracruz, Mexico.

Genus CRYPTYMA Chamberlin 1943b, p. 66.

TYPE SPECIES: *Cryptyma lobata* Chamberlin, by original designation.

Cryptyma lobata Chamberlin 1943b, p. 66.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Fortín, Veracruz, Mexico. Probably Fortín de las Flores.

Genus DECAPORODESMUS Kenyon 1899, p. 299.

Oligodesmus Gill 1899, p. 300; Pocock 1909, p. 133.

TYPE SPECIES: *Decaporodesmus motzoronginis* Kenyon, by original designation.

Decaporodesmus motzoronginis Kenyon 1899, p. 299.

TYPE: Location unknown. Not in U.S. Nat. Mus. (H)

TYPE LOCALITY: Motzorongo, Veracruz, Mexico.

Genus EIRENYMA Chamberlin 1943b, p. 67.

TYPE SPECIES: *Eirenyma munda* Chamberlin, by original designation.

Eirenyma munda Chamberlin 1943b, p. 67.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Atoyac, Guerrero, Mexico.

Genus GASATOMUS Chamberlin 1923b, p. 417.

TYPE SPECIES: *Gasatomus emersoni* Chamberlin, by original designation.

Gasatomus dubius Chamberlin 1940a, p. 5.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.

Genus IDIURODESMUS Silvestri 1924, p. 172.

TYPE SPECIES: *Idiurodesmus tristani* Silvestri, by monotypy.

Idiurodesmus tristani Silvestri 1924, p. 175.

TYPE: Lab. Zool., Portici ? (H).

TYPE LOCALITY: Turrucares, Costa Rica.

Genus ILYMA Chamberlin 1941b, p. 24.

TYPE SPECIES: *Ilyma orizaba* Chamberlin, by original designation.

Ilyma colotlipa Chamberlin 1942b, p. 9.

TYPE: Escuela Nat. Mexico City. [Probably still at Univ. Utah (H).]

TYPE AND PARATYPE LOCALITY: Cueva de Jutxlahuaca, Colotlipa, Guerrero, Mexico.

Ilyma morela Chamberlin 1943b, p. 63.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Parque National de Zempoala, Morelos, Mexico.

Ilyma orizaba Chamberlin 1941b, p. 24.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Collected at Laredo, Texas, on orchids from Orizaba, Veracruz, Mexico.

Ilyma potosina Chamberlin 1943b, p. 64.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: El Plutanito, San Luis Potosí, Mexico.

Genus KAPYRODESMUS Attems 1940, p. 322.

Xerodesmus Chamberlin 1923a, p. 403; preoccupied by Cook 1896.

TYPE SPECIES: *Xerodesmus mulegensis* Chamberlin, by original designation.

Kapyrodesmus mulegensis (Chamberlin).
Xerodesmus mulegensis Chamberlin 1923a, p. 403; Attems 1940, p. 322.
TYPE: Mus. California Acad. Sci., no. 1260.
TYPE AND PARATYPE LOCALITY: Mulegé, Baja California, Mexico.

Genus LOPHODESMUS Pocock 1894, p. 372.

TYPE SPECIES: *Lophodesmus pusillus* Pocock, by original designation.

Lophodesmus celatus Pocock 1909, p. 133.
Cynedesmus celatus Chamberlin 1922, p. 59; 1951, p. 77.
TYPE: British Mus.
TYPE LOCALITY: Volcán de Agua, Guatemala.
OTHER LOCALITY: Joyabaj, Guatemala (Chamberlin 1922).

Lophodesmus laminatus Pocock 1909, p. 132.
TYPE: British Mus.
TYPE LOCALITY: Teapa, Tabasco, Mexico.

Lophodesmus perparvus Pocock 1909, p. 133.
Cynedesmus perparvus Chamberlin 1922, p. 60; 1951, p. 77.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Volcán de Agua, Guatemala.

Genus MYRMECODESMUS Silvestri 1910, p. 359.

TYPE SPECIES: *Myrmecodesmus formicarius* Silvestri, by original designation.

Myrmecodesmus formicarius Silvestri 1910, p. 359.
TYPE: Location unknown (H).
TYPE LOCALITY: Jalapa, Mexico.

Myrmecodesmus modestus Silvestri 1911, p. 194.
TYPE: Location unknown (H).
TYPE LOCALITY: Jalapa, Mexico.

Genus NABOTOMUS Chamberlin 1940a, p. 5.

TYPE SPECIES: *Nabotomus delus* Chamberlin, by original designation.

Nabotomus delus Chamberlin 1940a, p. 5.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Barro Colorado Island, Canal Zone.

Genus ORTHYMA Chamberlin 1943b, p. 66.

TYPE SPECIES: *Orthyma clara* Chamberlin, by original designation.

Orthyma clara Chamberlin 1943b, p. 66.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Fortín, Veracruz, Mexico. Probably Fortín de las Flores.

Genus PORATIA Cook and Cook 1894, p. 238.

Tidopterus Chamberlin 1923b, p. 420; Loomis 1961, p. 97.
Dominicodesmus Chamberlin 1923c, p. 189; Loomis 1961, p. 97.
TYPE SPECIES: *Scytonotus digitatus* Porat, by original designation.

Poratia digitata (Porat).

Scytonotus digitatus Porat 1889b, p. 24; Cook and Cook 1894, p. 238.
Poratia heterotuberculata Carl 1902, p. 667; Silvestri 1923, p. 375.
Dominicodesmus panamicus Chamberlin 1940a, p. 6; Loomis 1961, p. 98.
TYPE: Naturh. Mus., Stockholm ? (H)
TYPE LOCALITY: Sweden, probably introduced into greenhouse.
OTHER LOCALITIES: Frijoles, Gamboa, and Monte Lirio, Canal Zone (Loomis 1961); Barro Colorado Island, Canal Zone (Loomis 1964a); Costa Rica (Silvestri 1923).

Poratia fossata Loomis 1964a, p. 74.
TYPE: Chicago Nat. Hist. Mus.
TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Poratia granulofrons (Chamberlin).

Treseolobus granulofrons Chamberlin 1918a, p. 221.
Dominicodesmus geophilus Chamberlin 1923c, p. 189; Loomis 1934, p. 55.
Psochodesmus granulofrons Loomis 1934, p. 55; 1961, p. 98.
TYPE: Mus. Comp. Zool.
TYPE AND PARATYPE LOCALITY: Jacmel, Haiti.
OTHER LOCALITIES: Barro Colorado Island, and Piña area, Canal Zone (Loomis 1961); Taboga Island (Loomis 1961), and Chilibrillo Cave, near Chilibre (Loomis 1964a), Panama Prov., Panama.

Genus PROSOPODESMUS Silvestri 1910, p. 360.

Homodesmus Chamberlin 1918a, p. 222; Loomis 1950, p. 166.
TYPE SPECIES: *Prosopodesmus jacobsoni* Silvestri, by original designation.

Prosopodesmus jacobsoni Silvestri 1910, p. 362.

Homodesmus parvus Chamberlin 1918a, p. 223; Loomis 1950, p. 166.
TYPE: Lab. Zool., Portici ? (H)
TYPE LOCALITY: Batavia, Java.
OTHER CHECKLIST LOCALITIES: Barro Colorado Island, and Madden Forest Preserve, Canal Zone (Loomis 1964a); Chilibrillo Cave, near Chilibre, Panama Prov., Panama (Loomis 1964a).

Genus RETTENMEYERIA Loomis 1959a, p. 6.

TYPE SPECIES: *Rettenmeyeria parvipes* Loomis, by original designation.

Rettenmeyeria parvipes Loomis 1959a, p. 6.

TYPE: U.S. Nat. Mus., no. 2938.

TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.

Genus SAROLEPIS Loomis 1964a, p. 75.

TYPE SPECIES: *Sarolepis spiculatus* Loomis, by original designation.

Sarolepis spiculatus Loomis 1964a, p. 76.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Genus STYRAXODESMUS Chamberlin 1918, p. 222.

TYPE SPECIES: *Styraxodesmus furcatus* Chamberlin, by original designation.

Styraxodesmus chipinqueus Chamberlin 1943b, p. 68.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Chipinque, Nuevo León, Mexico. Undoubtedly Chipinque Mesa, near Monterrey.

Genus TELAUXUS Chamberlin 1943b, p. 68.

TYPE SPECIES: *Telauxus fractus* Chamberlin, by original designation.

Telauxus fractus Chamberlin 1943b, p. 68.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Fortín, Veracruz, Mexico. Probably Fortín de las Flores.

Genus TRACHELOASPIS Loomis 1961, p. 98.

TYPE SPECIES: *Tracheloaspis tumida* Loomis, by original designation.

Tracheloaspis tumida Loomis 1961, p. 99.

TYPE: U.S. Nat. Mus., no. 2642.

TYPE LOCALITY: Barro Colorado Island, Canal Zone.

PARATYPE LOCALITIES: Same, and Monte Lirio, Canal Zone; Alahjuela and Juan Diás, Panama Prov., Panama.

Genus XENOPORUS Loomis 1961, p. 100.

TYPE SPECIES: *Xenoporus carinaceps* Loomis, by original designation.

Xenoporus carinaceps Loomis 1961, p. 101.

TYPE: U.S. Nat. Mus., no. 2643.

TYPE AND PARATYPE LOCALITY: El Valle, Coclé Prov., Panama.

OTHER LOCALITY: Almirante, Bocas del Toro Prov., Panama (Loomis 1964a).

Genus YUCODESMUS Chamberlin 1938a, p. 178.

TYPE SPECIES: *Yucodesmus viabilis* Chamberlin, by original designation.

Yucodesmus alienus Chamberlin 1938a, p. 180.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Probably Hoctun Cave, Hoctun, Yucatan, Mexico.

Yucodesmus dampfi Chamberlin 1947d, p. 101.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Hacienda Sayula, west of Veracruz, Veracruz, Mexico.

Yucodesmus isidricus Chamberlin 1938a, p. 179.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: San Isidro Cave, Mérida, Yucatan, Mexico.

Yucodesmus muruztunicus Chamberlin 1938a, p. 182.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Muruztun Cave, Tizamin, Yucatan, Mexico.

Yucodesmus viabilis Chamberlin 1938a, p. 179.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Luchil Cave, Tixcacal, Yucatan, Mexico.

PARATYPE LOCALITIES: Same, and Spukil and Sazich Caves, Calcehtok; Gongora Cave, Oxkutzcab; San Isidro Cave, Mérida, Yucatan, Mexico.

Family TRICHOPOLYDESMIDAE

Genus CYCLOPSODESMUS Loomis 1964a, p. 80.

TYPE SPECIES: *Cyclopsodesmus scaurus* Loomis, by original designation.

Cyclopsodesmus geniculatus Loomis 1964a, p. 82.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Cerro Punta, Chiriquí Prov., Panama.

Cyclopsodesmus octosetosus Loomis 1964a, p. 83.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Cerro Punta, Chiriquí Prov., Panama.

Cyclopsodesmus scaurus Loomis 1964a, p. 81.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Barca area, Finca Lerida, near Boquete, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Same, and Cerro Punta, Chiriquí Prov., Panama.

Genus CYLINDROGONUS Loomis 1964a, p. 83.

TYPE SPECIES: *Cylindrogonus copiosus* Loomis, by original designation.

Cylindrogonus copiosus Loomis 1964a, p. 84.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Casita Alta, Finca Lerida, near Boquete, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Same and general region.

Genus ENANTIOGONUS Loomis 1961, p. 103.

TYPE SPECIES: *Enantiogonus fragilis* Loomis, by original designation.

Enantiogonus fragilis Loomis 1961, p. 104.

TYPE: U.S. Nat. Mus., no. 2644.

TYPE LOCALITY: Piña area, Canal Zone.

Genus EUTYNELLUS Chamberlin 1940a, p. 9.

TYPE SPECIES: *Eutynellus flavior* Chamberlin, by original designation.

Eutynellus flavior Chamberlin, 1940a, p. 10.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.

Genus HARPOGONOPUS Loomis 1960, p. 58.

TYPE SPECIES: *Harpogonopus confluentus* Loomis, by original designation.

Harpogonopus confluentus Loomis 1960, p. 59.

TYPE: U.S. Nat. Mus., no. 2802.

TYPE LOCALITY: Cottonwood Creek, 45 mi. east of San Diego, California.

PARATYPE LOCALITIES: Same, and 14-20 mi. north of Ensenada, Baja California, Mexico.

Genus IRAZUNUS Attems 1933, p. 260.

TYPE SPECIES: *Irazunus reimoseri* Attems, by original designation.

Irazunus chiriquensis Loomis 1964a, p. 87.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: West of Finca Palo Santo, near Nueva California, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Same and general region.

Irazunus minusculus Attems 1933, p. 262.
TYPE: Naturh. Mus. Wien. (H)
TYPE LOCALITY: Hamburg Farm, north of Puerto Limón, Costa Rica.
Irazunus ovatus Loomis 1964a, p. 88.
TYPE: Chicago Nat. Hist. Mus.
TYPE AND PARATYPE LOCALITY: Finca Lerida, near Boquete Chiriquí Prov., Panama.
Irazunus penicillatus Loomis 1964a, p. 89.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Barca area, Finca Lerida, near Boquete, Chiriquí Prov., Panama.
PARATYPE LOCALITIES: Same and general region.
Irazunus reimoseri Attems 1933, p. 260.
TYPE: Naturh. Mus. Wien.
TYPE AND PARATYPE LOCALITY: Volcán Irazu, Costa Rica.
Irazunus uncus Loomis 1964a, p. 90.
TYPE: Chicago Nat. Hist. Mus.
TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.
Irazunus velaripes Loomis 1964a, p. 91.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: El Valle, Coclé Prov., Panama.
PARATYPE LOCALITIES: Same and general region.

Genus **IROGONUS** Loomis 1964a, p. 92.

TYPE SPECIES: *Irogonus reniformis* Loomis, by original designation.
Irogonus reniformis Loomis 1964a, p. 92.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Cerro Punta, Chiriquí Prov., Panama.

Genus **LEIOGONOPUS** Loomis 1964a, p. 93.

TYPE SPECIES: *Leiogonopus echinus* Loomis, by original designation.
Leiogonopus echinus Loomis 1964a, p. 94.
TYPE: Chicago Nat. Hist. Mus.
TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.
Leiogonopus bidentatus Loomis 1964a, p. 96.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: El Valle, Coclé Prov., Panama.

Genus PACHYGONOPUS Loomis 1964a, p. 96.

TYPE SPECIES: *Pachygonopus apiculatus* Loomis, by original designation.

Pachygonopus apiculatus Loomis 1964a, p. 97.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Genus PHREATODESMUS Loomis 1960, p. 62.

TYPE SPECIES: *Phreatodesmus torreyanus* Loomis, by original designation.

Phreatodesmus torreyanus Loomis 1960, p. 63.

TYPE: U.S. Nat. Mus., no. 2805.

TYPE LOCALITY: Torrey Pines, above La Jolla, California.

PARATYPE LOCALITIES: Same, and Temescal Canyon Road, near Corona, California; North of Ensenada, Baja California, Mexico.

Genus SALVADORIA Kraus 1954b, p. 314.

TYPE SPECIES: *Salvadoria alata* Kraus, by original designation.

Salvadoria alata Kraus 1954b, p. 315.

TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: Laguna Verde, Dept. Ahuachapan, El Salvador.

Salvadoria alata propinqua Kraus 1954b, p. 315.

TYPE: Senckenberg Mus., Frankfurt.

TYPE AND PARATYPE LOCALITY: Laguna de las Ranas, Dept. Sonsonate, El Salvador.

Salvadoria argentea Kraus 1954b, p. 316.

TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: Hacienda les Planes, Metapan Mts., Dept. Santa Ana, El Salvador.

Salvadoria furcata Kraus 1954b, p. 316.

TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: Rainforest of Monte Cristo, Metapan Mts., Dept. Santa Ana, El Salvador.

Salvadoria sagittalis Kraus 1954b, p. 316.

TYPE: Senckenberg Mus., Frankfurt.

TYPE AND PARATYPE LOCALITY: Laguna Verde, Dept. Ahuachapan, El Salvador.

Genus TICHODESMUS Chamberlin 1940a, p. 13.

TYPE SPECIES: *Tichodesmus micrus* Chamberlin, by original designation.

Tichodesmus micrus Chamberlin 1940a, p. 13.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.

Family TRIDONTOMIDAE

Genus **AENIGMOPUS** Loomis and Hoffman 1962, p. 151.

TYPE SPECIES: *Aenigmopus alatus* Loomis and Hoffman, by original designation.
Aenigmopus alatus Loomis and Hoffman 1962, p. 152.
TYPE: U.S. Nat. Mus., no. 2824.
TYPE AND PARATYPE LOCALITY: Scamay, about 3 mi. south of Senahu, Guatemala.

Genus **TRIDONTOMUS** Loomis and Hoffman 1962, p. 146.

TYPE SPECIES: *Tridontomus procerus* Loomis and Hoffman, by original designation.
Tridontomus procerus Loomis and Hoffman 1962, p. 148.
TYPE: U.S. Nat. Mus., no. 2823.
TYPE AND PARATYPE LOCALITY: Sepacuite, Alta Verapaz, Guatemala.

Family XYSTODESMIDAE

Genus **CRUZODESMUS** Chamberlin 1943b, p. 48.

TYPE SPECIES: *Cruzodesmus ergus* Chamberlin, by original designation.
Cruzodesmus browni Chamberlin 1943b, p. 49.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Near Fortín, Veracruz, Mexico; probably Fortín de las Flores.
Cruzodesmus ergus Chamberlin 1943b, p. 48.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Near Fortín, Veracruz, Mexico; probably Fortín de las Flores.
Cruzodesmus purojenus Chamberlin 1943b, p. 49.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Puroje Nuevo, Veracruz, Mexico.

Genus **RHYSODESMUS** Cook 1895, p. 5.

Dampfaria Verhoeff 1932, p. 519; Attems 1938, p. 138.
Aporiaria Chamberlin 1938b, p. 207; Chamberlin 1943c, p. 143

Acentronus Chamberlin 1943b, p. 50. New synonymy, suggested by R. L. Hoffman.

TYPE SPECIES: *Polydesmus limax* Saussure, by original designation.

Rhysodesmus acolhuus (Humbert and Saussure).

Polydesmus acolhuus Humbert and Saussure 1869, p. 150.

Polydesmus (Fontaria) acolhuus Saussure and Humbert 1872, p. 33; Pocock 1910, p. 203.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE AND PARATYPE LOCALITY: Valley of Moyapan and the Sierra de Agua, near Orizaba, Eastern Cordillera, Mexico.

Rhysodesmus acuarius Attems 1931, p. 63.

TYPE: Natur. Mus. Wien. (H)

TYPE LOCALITY: Orizaba, Veracruz, Mexico.

Rhysodesmus alpuyecus Chamberlin 1943b, p. 37.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Alpuyeca, Morelos, Mexico.

Rhysodesmus amplinus Chamberlin 1952a, p. 571.

TYPE: Chicago Mus. Nat. Hist.

TYPE AND PARATYPE LOCALITY: El Fortín, Veracruz, Mexico. Probably Fortín de las Flores.

Rhysodesmus angelus (Karsch).

Polydesmus (Fontaria) angelus Karsch 1881, p. 39.

Fontaria tepaneca Attems 1899, p. 259; Pocock 1910, p. 203.

TYPE: Zool. Mus. Berlin (H).

TYPE AND PARATYPE LOCALITY: Puebla, Mexico.

Rhysodesmus arcuatus Pocock 1910, p. 201.

TYPE: British Mus.

TYPE LOCALITY: Omilteme, Guerrero, Mexico.

Rhysodesmus attemsi Pocock 1909, p. 200.

TYPE: British Mus.

TYPE LOCALITY: Amula, Guerrero, Mexico.

PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.

Rhysodesmus bolivari Chamberlin 1943b, p. 38.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: García, Nuevo León, Mexico.

Rhysodesmus bonus Chamberlin 1943b, p. 38.

TYPE Collection of R. V. Chamberlin.

TYPE LOCALITY: Fortín, Veracruz, Mexico. Probably Fortín de las Flores.

PARATYPE LOCALITY: Orizaba, Mexico.

Rhysodesmus brachus Chamberlin 1941c, p. 63.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Ojo de Agua, Sabinas Hidalgo, Nuevo León, Mexico.

Rhysodesmus championi Pocock 1909, p. 198.
TYPE: British Mus.
TYPE LOCALITY: Zapote, Pacific slope, Guatemala.

Rhysodesmus consobrinus (Saussure).
Polydesmus consobrinus Saussure 1859, p. 322.
Polydesmus (Fontaria) consobrinus Saussure 1860, p. 317; Pocock 1910, p. 204.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE LOCALITY: Anahuac, Mexico.
PARATYPE LOCALITY: Volcán Orizaba, Mexico.

Rhysodesmus cuernavacae Chamberlin 1942c, p. 92.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Cuernavaca, Morelos, Mexico.

Rhysodesmus cumbres Chamberlin 1943b, p. 39.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Cumbres, Veracruz, Mexico.

Rhysodesmus dampfi (Verhoeff). New combination, by R. L. Hoffman.
Dampfaria dampfi Verhoeff 1932, p. 521. Hoffman states this species was mistakenly considered a synonym of *R. attemsi* Pocock, by Attems 1938, p. 148.
TYPE: Zool. Mus. Munchen (H).
TYPE LOCALITY: Desierto de los Leones, Mexico.

Rhysodesmus elestribus Chamberlin 1943b, p. 39.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Elestribo, Michoacan, Mexico.
PARATYPE LOCALITY: Same and Tepoztlan, Morelos, Mexico.

Rhysodesmus esperanzae Chamberlin 1943b, p. 40.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Esperanza, Guanajuato, Mexico

Rhysodesmus eunis Chamberlin 1943b, p. 41.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Volcán Orizaba, Puebla, Mexico.

Rhysodesmus eusculptus Chamberlin 1941c, p. 64.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Tancítaro, Michoacan, Mexico.

Rhysodesmus eutypus Chamberlin 1943b, p. 41.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Los Berros, Mexico.
PARATYPE LOCALITY: Same and Desierto de los Leones, D. F., Mexico.

Rhysodesmus flavocinctus Pocock 1909, p. 199.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Amula, Guerrero, Mexico.

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Rhysodesmus fraternus (Saussure).

Polydesmus fraternus Saussure 1859, p. 323.

Polydesmus (Fontaria) fraternus Saussure 1860, p. 310.

? *Fontaria fraterna* Attems 1900, p. 260; Pocock 1910, p. 205.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE AND PARATYPE LOCALITY: Villages, eastern slope of Cordillera, Mexico.

Rhysodesmus frionus Chamberlin 1943b, p. 42.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Rio Frio, D. F., Mexico.

PARATYPE LOCALITIES: Same and San Rafael, D. F.; Rio Frio, Puebla, Mexico.

Rhysodesmus garcianus Chamberlin 1943b, p. 42.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: García, Nuevo León, Mexico.

Rhysodesmus godmani Pocock 1909, p. 199.

TYPE: British Mus.

TYPE LOCALITY: Omilteme, Guerrero, Mexico.

PARATYPE LOCALITY: Amula, Guerrero, Mexico.

Rhysodesmus guardanus Chamberlin 1943b, p. 43.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: El Guarda, D. F., Mexico

Rhysodesmus intermedius Chamberlin 1943b, p. 43.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Chilpancingo, Guerrero, Mexico.

Rhysodesmus inustus Pocock 1910, p. 202.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.

Rhysodesmus knighti Chamberlin 1941c, p. 65.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Horsetail Falls, Hacienda Vista Hermosa, Villa Santiago, Nuevo León, Mexico.

Rhysodesmus leonensis Chamberlin 1941c, p. 65.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Ojo de Agua, Sabinas Hidalgo, Nuevo León, Mexico.

Rhysodesmus limax (Saussure).

Polydesmus limax Saussure 1859, p. 312.

Polydesmus (Fontaria) limax Saussure 1860, p. 312; Cook 1895, p. 5.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Córdoba, Veracruz, Mexico.

PARATYPE LOCALITY: San Andréas Tuxtla, Veracruz, Mexico.

Rhysodesmus malinche Chamberlin 1943b, p. 44.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: La Cañada, Malinche, Tlaxcala, Mexico.

Rhysodesmus marcosus Chamberlin 1952a, p. 572.

TYPE: Chicago Mus. Nat. Hist.

TYPE AND PARATYPE LOCALITY: San Marcos, Guatemala.

Rhysodesmus mayanus Chamberlin 1925, p. 44.

TYPE: Mus. Comp. Zool.

TYPE LOCALITY: Yucatan, Mexico.

Rhysodesmus minor (Chamberlin). New combination.

Acentronus minor Chamberlin 1943b, p. 50; transfer suggested by R. L. Hoffman, after having examined the holotype.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Chilpancingo, Guerrero, Mexico.

Rhysodesmus morelus Chamberlin 1943b, p. 44.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Tepoztlan, Morelos, Mexico.

Rhysodesmus montezumae (Saussure).

Polydesmus (Fontaria) montezumae Saussure 1859, p. 321; Pocock 1909, p. 195.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE AND PARATYPE LOCALITY: Mirador, Córdoba, and the plateau of Anahuac round Puebla and Chalchicomula, Mexico.

OTHER LOCALITY: Peak of Orizaba, Mexico (Pocock 1909).

Rhysodesmus mystecus (Humbert and Saussure).

Polydesmus mystecus Humbert and Saussure 1869, p. 150.

Polydesmus (Fontaria) mystecus Saussure and Humbert 1872, p. 32; Pocock 1910, p. 206.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE AND PARATYPE LOCALITY: Mid-region of Eastern Cordillera, Mexico.

Rhysodesmus nahuus (Humbert and Saussure).

Polydesmus nahuus Humbert and Saussure 1869, p. 150.

Polydesmus (Fontaria) nahuus Saussure and Humbert 1872, p. 36; Pocock 1910, p. 206.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Eastern Cordillera, Mexico.

Rhysodesmus notostictus Pocock 1910, p. 202.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.

Rhysodesmus otomitus (Saussure).

Polydesmus otomitus Saussure 1859, p. 322.

Polydesmus (Fontaria) otomitus Saussure 1860, p. 315; Pocock 1910, p. 207.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE AND PARATYPE LOCALITY: Plateau and temperate regions (Córdoba), Mexico.

Rhysodesmus pater Chamberlin 1943b, p. 45.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: El Fortín, Veracruz, Mexico. (Probably Fortín de las Flores.)
Rhysodesmus perotenus Chamberlin 1943b, p. 45.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Eighteen mi. north of Perote, Veracruz, Mexico.
PARATYPE LOCALITY: Perote, Veracruz, Mexico.
Rhysodesmus potosianus Chamberlin 1942c, p. 91.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Tamazunchale, San Luis Potosí, Mexico
Rhysodesmus pusillus Pocock 1909, p. 197.
TYPE: British Mus.
TYPE LOCALITY: Mexico.
Rhysodesmus rubrimarginis Chamberlin 1943b, p. 46.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Tacubaya, D. F., Mexico.
Rhysodesmus salvini Pocock 1909, p. 200.
TYPE: British Mus.
TYPE LOCALITY: Omilteme, Guerrero, Mexico.
Rhysodesmus sandersi Causey 1954, p. 64.
TYPE: Illinois St. Nat. Hist. Surv., Urbana.
TYPE LOCALITY: Tamazunchale, San Luis Potosí, Mexico.
Rhysodesmus seriatus Chamberlin 1947b, p. 31.
TYPE: Acad. Nat. Sci. Philadelphia, no. 9954.
TYPE LOCALITY: Cieneguilla, Nuevo León, Mexico.
PARATYPE LOCALITIES: Pablillo, Nuevo León; Saltillo-Diamante, Coahuila, Mexico.
Rhysodesmus simillimus (Humbert and Saussure).
Polydesmus simillimus Humbert and Saussure 1869, p. 150.
Polydesmus (Fontaria) simillimus Saussure and Humbert 1872, p. 31; Pocock 1910, p. 207.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE LOCALITY: Santa Cruz, near Orizaba, Veracruz, Mexico.
Rhysodesmus smithi Pocock 1910, p. 201.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.
Rhysodesmus stolli Pocock 1909, p. 198.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Retalhuleu, Guatemala.
Rhysodesmus tabascensis Pocock 1909, p. 198.
TYPE: British Mus.
TYPE LOCALITY: Teapa, Tabasco, Mexico.
OTHER LOCALITY: Rancho Nuevo, Chiapas, Mexico (Causey 1954).

Rhysodesmus tacubayae Chamberlin 1943b, p. 46.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Tacubaya, D. F., Mexico.

Rhysodesmus tepanecus (Saussure).
Polydesmus tepanecus Saussure 1859, p. 321.
Polydesmus (Fontaria) tepanecus Saussure 1860, p. 319; Pocock 1910, p. 207.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE LOCALITY: Córdoba, Mexico.
PARATYPE LOCALITY: Moyoapan, Santa Cruz, near Orizaba, Mexico.

Rhysodesmus tepoztlanus Chamberlin 1943b, p. 47.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Tepoztlan, Morelos, Mexico.

Rhysodesmus toltecus (Saussure).
Polydesmus toltecus Saussure 1859, p. 322.
Polydesmus mayus Saussure 1859, p. 322.
Polydesmus granulosus Saussure 1859, p. 323; Pocock 1910, p. 208.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE LOCALITY: Eastern slope of Cordillera, Mexico
PARATYPE LOCALITY: Edge of plateau, Orizaba Mountain, Mexico.

Rhysodesmus totanacus (Saussure).
Polydesmus totanacus Saussure 1859, p. 321.
Polydesmus (Fontaria) totanacus Saussure 1860; p. 322; Pocock 1909, p. 196.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE LOCALITY: Plateau of Anahuac, Mexico.
PARATYPE LOCALITY: Peak of Orizaba, Mexico.

Rhysodesmus viabilis Chamberlin 1943b, p. 47.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Five mi. west of El Folorn, Tamaulipas, Mexico. (Correct locality probably Forlon.)
PARATYPE LOCALITY: Same, and south of Ciudad Victoria, Tamaulipas, Mexico.
OTHER LOCALITIES: North of Mante, Mexico (Loomis 1944); Valles, San Luis Potosí, Mexico (Causey 1954).

Rhysodesmus vicinus (Saussure).
Polydesmus vicinus Saussure 1859, p. 322.
Polydesmus (Fontaria) vicinus Saussure 1860, p. 318; Pocock 1910, p. 209.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE LOCALITY: Plateau of Anahuac, Mexico.
PARATYPE LOCALITY: Oaxaca, Mexico.

Rhysodesmus violaceus (Brolemann).
Fontaria violacea Brolemann 1900, p. 101; Pocock 1910, p. 208.
TYPE: Mus. Nat. Hist. Natur., Paris (H).

TYPE AND PARATYPE LOCALITY: Guatemala.

OTHER LOCALITY: Hacienda des Palmes, Mt. Metapan, Dept. Santa Ana, El Salvador (Kraus 1954b).

Rhysodesmus zapotecus (Saussure).

Polydesmus (Fontaria) zapotecus Saussure 1860, p. 314; Pocock 1910, p. 209.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE AND PARATYPE LOCALITY: San Andreas Tuxtla, Veracruz, Mexico.

Rhysodesmus zendalus (Humbert and Saussure).

Polydesmus zendalus Humbert and Saussure 1869, p. 150.

Polydesmus (Fontaria) zendalus Saussure and Humbert 1872, p. 34; Pocock 1910, p. 210.

TYPE: Mus. Hist. Nat. Geneva (H).

TYPE AND PARATYPE LOCALITY: Eastern Cordillera, Mexico.

Genus **STENODESMUS** Saussure 1859, p. 327

TYPE SPECIES: *Stenodesmus mexicanus* Saussure, by original designation.

Stenodesmus mexicanus Saussure 1859, p. 327.

TYPE: Mus. Hist. Nat. Geneve.

TYPE AND PARATYPE LOCALITY: Córdoba, Mexico.

Suborder PARADOXOSOMATIDEA

Family PARADOXOSOMATIDAE

This family has been known for years as the Strongylosomidae or Strongylosomatidae but the reasons for the above usage are presented by Jeekel 1963a.

Genus **MESTOSOMA** Silvestri 1897b, p. 3.

TYPE SPECIES: *Strongylosoma salvadori* Silvestri, by original designation. An imposing list of synonyms of this genus, none of which includes any Mexican or Central American species, is given by Jeekel 1963a.

Mestosoma isthmianum Loomis 1961, p. 107.

TYPE: U.S. Nat. Mus., no. 2646.

TYPE LOCALITY: Alahjuela, Panama Prov., Panama.

PARATYPE LOCALITIES: Same, and Balboa, Paraiso, and Pedro Miguel, Canal Zone.

Mestosoma pulvillatum (Attems).

Strongylosoma pulvillatum Attems 1899, p. 293.

Habrodesmus pulvillatus Attems 1914b, p. 214; Jeekel 1963a, p. 32.

TYPE: Naturh. Mus. Wien.

TYPE LOCALITY: Paraguay.

In Attems 1933, p. 257, this species is listed, without additional details, as found in Costa Rica. This fantastic extension of range is quite improbable and it seems most likely that the Costa Rican specimen or specimens represent an undescribed species. Some additional remarks on this species in South America were made by Jeekel 1963a, p. 32.

Genus **ORTHOMORPHA** Bollman 1893, p. 159.

TYPE SPECIES: *Polydesmus coarctatus* Saussure, by original designation.

Orthomorpha coarctata (Saussure).

Polydesmus coarctatus Saussure 1860, p. 207.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Considered to be in the Malay Archipelago.

OTHER LOCALITIES: Tropicopolitan. Has been or probably will be found in or near most large urban areas of Mexico and Central America.

Extensive synonymy of this introduced genus and species is given by Chamberlin and Hoffman 1958, and Jeekel 1963a.

Orthomorpha festae Silvestri 1896a, p. 4.

TYPE: Mus. Zool. Royale, Torino (H).

TYPE LOCALITY: Forest of the Rio Cianati, Darien Prov., Panama.

Jeekel 1963a places this species in "species incertae sedis." I believe it to be a euryurid, possibly of the genus *Pseudamplinus*.

Genus **OXIDUS** Cook 1911c, p. 628.

TYPE SPECIES: *Fontaria gracilis* Koch, by original designation.

Oxidus gracilis (Koch).

Fontaria gracilis Koch 1847, p. 142; Cook 1911c, p. 631.

TYPE: Location unknown (H).

TYPE LOCALITY: Supposed to be East Indian but collected in a greenhouse in Austria.

OTHER LOCALITIES: Cosmopolitan in greenhouses; in the open in much of Mexico and Central America.

Full synonymy of this introduced genus and species is given in Chamberlin and Hoffman 1958.

Order CHORDEUMIDA

KEY TO THE SUBORDERS OF CHORDEUMIDA

1. Body segments not more than 32 and lacking longitudinal crests and repugnatorial pores..... CHORDEUMIDEA

Body segments 39 or more with pronounced longitudinal crests and conspicuous repugnatorial pores ..... LYSIOPETALIDEA

Suborder CHORDEUMIDEA

KEY TO THE FAMILIES OF CHORDEUMIDEA

1. Segments with a prominent lateral shoulder; gonopods united by a large, apically divided, anterior sternite ..... DYBASIIDAE
   Segments not prominently shouldered; gonopods not united by a large sternite 2
2. Gnathochilarium with mentum divided, having a distinct prom entum; 9th male legs with 4 or 5 joints beyond sternum. CLEIDOGONIDAE
   Gnathochilarium with mentum entire; 9th male legs 3-jointed beyond sternum ..... TRICHOPETALIDAE

Family CLEIDOGONIDAE

Genus **ACAKANDRA** Loomis 1964a, p. 99.

TYPE SPECIES: *Acakandra austrina* Loomis, by original designation.
Acakandra austrina Loomis 1964a, p. 99.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Cerro Punta, Chiriquí Prov., Panama.
PARATYPE LOCALITIES: Same and near Nueva California, Chiriquí Prov., Panama.

Genus **CAVOTA** Chamberlin 1942b, p. 8.

TYPE SPECIES: *Cavota crucis* Chamberlin, by original designation.
Cavota crucis Chamberlin 1942b, p. 8.
TYPE: Escuela Nat. Mexico City.
TYPE AND PARATYPE LOCALITY: Gruta de Atoyac, Veracruz, Mexico.

Genus **CLEIDOGONA** Cook 1895, p. 3.

Cryptotrichus Packard 1883, p. 189.
Campodes Bollman 1893, p. 120 (not C. L. Koch).
Cleidogona Cook and Collins 1895, p. 41.
TYPE SPECIES: *Spirostrephon caesioannulatus* Wood, by monotypy.
For nearly 70 years the genus Cleidogona has been attributed to Cook and Collins 1895, p. 41, overlooking the fact that on an earlier page Cook alone proposed the name to replace *Cryptotrichus* Packard, preoccupied in Coleoptera, for specimens from Culmana, Alabama, and Ocean Springs, Mississippi, which Packard identified as *Cryptotrichus (Spirostrephon) caesioannulatus* (Wood). Although Packard undoubtedly

was wrong in identifying his specimens as the same species as those from Alleghany County, Pennsylvania, on which Wood founded *Spirostrephon caesioannulatus*, use of this name for the genotype of Cleidogona is required by the current rules of nomenclature.

Cleidogona atoyaca Chamberlin 1943b, p. 34.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Atoyac, Veracruz, Mexico.

Cleidogona leona Chamberlin 1943b, p. 34.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Desierto de los Leones, D. F., Mexico.

Cleidogona mandeli Chamberlin 1952b, p. 13.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Volcán Tajumulco, Guatemala.

Cleidogona mexicana (Humbert and Saussure).

Cleidogona mexicanus Cook and Collins 1895, p. 52.

Craspedosoma mexicanum Humbert and Saussure 1869, p. 153.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Eastern Cordillera, Mexico.

Cleidogona moderata Causey 1957, p. 115.

TYPE: American Mus. Nat. Hist.

TYPE LOCALITY: Eighteen mi. south of Tamazunchale, San Luis Potosí, Mexico.

Cleidogona nueva Chamberlin 1941d, p. 250.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Ojo de Agua, Sabinas Hidalgo, Nuevo León, Mexico.

Cleidogona nueva michoacana Chamberlin 1941d, p. 251.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Tancítaro, Michoacan, Mexico.

Cleidogona propia Causey 1957, p. 119.

TYPE: American Mus. Nat. Hist.

TYPE AND PARATYPE LOCALITY: Near Puerto Las Peras, on Highway 15, Michoacan, Mexico.

Cleidogona punctifer Chamberlin 1952b, p. 13.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Chichivac, Guatemala.

Cleidogona rafaela Chamberlin 1943b, p. 35.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: San Rafael, D. F., Mexico.

Cleidogona secreta Causey 1957, p. 119.

TYPE: American Mus. Nat. Hist.

TYPE AND PARATYPE LOCALITY: Oaxaca, Oaxaca, Mexico.

Cleidogona tajumulco Chamberlin 1952b, p. 15.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Volcán Tajumulco, Guatemala.
Cleidogona zempoala Chamberlin 1943b, p. 35.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Parque Nacionale de Zempoala, Morelos, Mexico.
Cleidogona zimapaniensis Causey 1957, p. 117.
TYPE: American Mus. Nat. Hist.
TYPE AND PARATYPE LOCALITY: Pan-American Highway, 14 mi. north of Zimapán, Hidalgo, Mexico.

Genus **HIRSUTOGONA** Kraus 1954b, p. 329.

TYPE SPECIES: *Hirsutogona minutissima* Kraus, by original designation.
Hirsutogona ceibana (Chamberlin).
Cleidogona ceibana Chamberlin 1922, p. 11; Kraus 1954, p. 329; placed with doubt.
TYPE: U.S. Nat. Mus., no. 822.
TYPE LOCALITY: La Ceiba, Honduras.
Hirsutogona godmani (Pocock).
Cleidogona godmani Pocock 1903, p. 52; Kraus 1954b, p. 329.
TYPE: British Mus.
TYPE LOCALITY: Omilteme, Guerrero, Mexico.
Hirsutogona minutissima Kraus 1954b, p. 332.
TYPE: Senckenberg Mus., Frankfurt.
TYPE LOCALITY: Laguna de las Ranas, Dept. Sonsonate, El Salvador.
Hirsutogona mirabilis Kraus 1954b, p. 329.
TYPE: Senckenberg Mus., Frankfurt.
TYPE AND PARATYPE LOCALITY: Monte Cristo, Metapan Mts., Dept. Santa Ana, El Salvador.
Hirsutogona stolli (Pocock).
Cleidogona stolli Pocock 1903, p. 52; Kraus 1954b, p. 329.
TYPE: British Mus.
TYPE LOCALITY: Volcán de Agua, Guatemala.

Genus **MEXICEUMA** Verhoeff 1926, p. 112.

TYPE SPECIES: *Mexiceuma maculata* Verhoeff, by original designation.
Mexiceuma maculata Verhoeff 1926, p. 112.
TYPE: Zool. Mus., Munchen (H).
TYPE LOCALITY: D. F., Mexico.

Genus SOLAENOGONA Hoffman 1950a, p. 91.

TYPE SPECIES: *Solaenogona guatemalana* Hoffman, by original designation.

Solaenogona guatemalana Hoffman 1950a, p. 91.

TYPE: U.S. Nat. Mus., no. 1883.

TYPE AND PARATYPE LOCALITY: Between Santa Cruz del Quiché and Totonicapán, Guatemala.

Family DYBASIIDAE

Genus DYBASIA Loomis 1964a, p. 100.

TYPE SPECIES: *Dybasia humerosa* Loomis, by original designation.

Dybasia humerosa Loomis 1964a, p. 101.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: "Casita Alta," Finca Lerida, near Boquete, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Same and general region; Cerro Punta, Chiriqui Prov., Panama.

Genus OGKOMUS Loomis 1964a, p. 102.

TYPE SPECIES: *Ogkomus divergens* Loomis, by original designation.

Ogkomus divergens Loomis 1964a, p. 104.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

PARATYPE LOCALITIES: Same and adjacent region.

Genus SOLEMIA Loomis 1964a, p. 104.

TYPE SPECIES: *Solemia chiriquia* Loomis, by original designation.

Solemia chiriquia Loomis 1964a, p. 105.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Finca Lerida, near Boquete, Chiriquí Prov., Panama.

PARATYPE LOCALITY: Cerro Punta, Chiriquí Prov., Panama.

Family TRICHOPETALIDAE

Genus MEXITERPES Causey 1963, p. 235.

TYPE SPECIES: *Mexiterpes sabinus* Causey, by original designation.

Mexiterpes sabinus Causey 1963, p. 235.

TYPE: Mus. Comp. Zool.

TYPE LOCALITY: Big Room, 3,000 ft. from entrance, Sótanó del Arroyo, near Los Sabinos and 8 mi. north of Valles, San Luis Potosí, Mexico.

Suborder LYSIOPETALIDEA

Family LYSIOPETALIDAE

Genus **ABACION** Rafinesque 1820, p. 9.

Spirostrephon Brandt 1841, p. 105; Hoffman and Crabill 1953, p. 81.
Platops Newport 1844, p. 267.

TYPE SPECIES: *Abacion tesselatum* Rafinesque, by monotypy.

Abacion texense (Loomis).

Spirostrephon texensis Loomis 1937, p. 109; Chamberlin and Hoffman 1958, p. 110.
Spirostrephon jonesi Chamberlin 1942d, p. 17; Chamberlin and Hoffman 1958, p. 110.

TYPE: U.S. Nat. Mus., no. 1237.

TYPE LOCALITY: Pierce, Wharton Co., Texas.

PARATYPE LOCALITIES: Wharton, Wharton Co.; Smith, Dallas, and Tarrant Counties, Texas.

OTHER LOCALITIES: "Great Plains from Ames, Iowa, and Lincoln, Nebraska, through Kansas, Oklahoma and western Missouri, south as far as Kerr, Bandera, and Wharton Counties, Texas, east through Arkansas and Louisiana to Rankin Co., Mississippi" (Chamberlin and Hoffman 1958). Monterrey and Bustamente, Nuevo León, Mexico. (Reported by letter from Dr. Nell B. Causey.)

Genus **COLACTIS** Loomis 1937, p. 120.

TYPE SPECIES: *Colactis saxetana* Loomis, by original designation.

Colactis loomisi Hoffman 1954b, p. 1.

TYPE: American Mus. Nat. Hist.

TYPE LOCALITY: Providencia, Durango, Mexico.

Colactis protenta Loomis 1937, p. 126.

TYPE: U.S. Nat. Mus., no. 1246.

TYPE AND PARATYPE LOCALITY: On road 15 mi. north of Ensenada, Baja California, Mexico.

Colactis tiburona (Chamberlin).

Lysiopetalum tiburonum Chamberlin 1923a, p. 402; Loomis 1937, p. 128.

TYPE: Mus. California Acad. Sci., no. 1259.

TYPE LOCALITY: South end of Isla Tiburón, Sonora, Mexico.

Genus **TYNOMA** Loomis 1937, p. 117.

TYPE SPECIES: *Tynoma sedecimum* Loomis, by original designation.

Tynoma messicanum Chamberlin 1943b, p. 33.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Chipinqui, Nuevo León, Mexico.

Order STEMMIULIDA

Family STEMMIULIDAE

Genus PROSTEMMIULUS Silvestri 1916, p. 323.

TYPE SPECIES: *Prostemmiulus mexicanus* Silvestri, by original designation.

Prostemmiulus annulatus Loomis 1964a, p. 106.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Prostemmiulus cincinnatus Loomis 1964a, p. 108.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Prostemmiulus cooki Chamberlin 1922, p. 11.

TYPE: U.S. Nat. Mus., no. 821.

TYPE AND PARATYPE LOCALITY: Joyabaj, Guatemala.

Prostemmiulus leucus (Chamberlin). New combination.

Stemmiulus leucus Chamberlin 1943b, p. 33. Above combination, with which I agree, was suggested by R. L. Hoffman because of the difference of generic ranges.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Atoyac, Veracruz, Mexico.

Prostemmiulus lombardiae Chamberlin 1922, p. 10.

TYPE: U.S. Nat. Mus., no. 820.

TYPE LOCALITY: Lombardia, Honduras.

Prostemmiulus mexicanus Silvestri 1916, p. 323.

TYPE: Location unknown.

TYPE LOCALITY: Buena Ventura (Santa Rosa), Veracruz, Mexico.

PARATYPE LOCALITIES: Jonala, Chiapas; Jalapa, Veracruz, Mexico.

Prostemmiulus modicus Silvestri 1916,, p. 324.

TYPE: Location unknown.

TYPE AND PARATYPE LOCALITY: Jalapa, Veracruz, Mexico.

Prostemmiulus modicus cordovana Silvestri 1961, p. 326.

TYPE: Location unknown.

TYPE AND PARATYPE LOCALITY: Córdoba, Mexico.

Prostemmiulus oculeus Loomis 1961, p. 109.

TYPE: U.S. Nat. Mus., no. 2647.

TYPE LOCALITY: El Valle, Coclé Prov., Panama.

PARATYPE LOCALITY: Juan Días, Panama Prov., Panama.

Prostemmiulus picadoi Silvestri 1916, p. 327.

TYPE: Location unknown.

TYPE LOCALITY: "La Estrella," Costa Rica.

PARATYPE LOCALITY: Same and "Planton," Costa Rica.

Prostemmiulus relictus Chamberlin 1922, p. 9.

TYPE: U.S. Nat. Mus., no. 819.

TYPE LOCALITY: La Ceiba, Honduras.

Prostemmiulus teres Loomis 1964a, p. 109.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: West of Finca Palo Santo, near Nueva California, Chiriquí Prov., Panama.

Prostemmiulus tristani Silvestri 1916, p. 326.

TYPE: Location unknown.

TYPE LOCALITY: "La Estrella," Costa Rica.

PARATYPE LOCALITY: Same and Orosi, Costa Rica.

Prostemmiulus vallaris Loomis 1964a, p. 109.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: El Valle, Coclé Prov., Panama.

Genus STEMMIULUS Gervais 1844b, p. 28.

TYPE SPECIES: *Iulus (Stemmiulus) bioculatus* Gervais, probably by monotypy.

Stemmiulus bioculatus (Gervais).

Iulus (Stemmiulus) bioculatus Gervais 1844, p. 28.

TYPE: Location unknown.

TYPE LOCALITY: Colombia.

Although several authors have credited this species to Panama, primarily on Silvestri's 1896a and 1897b identifications of specimens from Darien Province, it now seems quite unlikely that Silvestri's specimens were of this species.

Stemmiulus canalis Chamberlin 1940a, p. 14.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.

OTHER LOCALITIES: Same and Piña area, Canal Zone (Loomis 1961).

Stemmiulus marginandus Loomis 1964a, p. 110.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Stemmiulus parallelus Loomis 1964a, p. 111.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: West of Finca Palo Santo, near Nueva California, Chiriquí Prov., Panama.

Order JULIDA

KEY TO THE SUBORDERS OF JULIDA.

1. Telopodite of anterior gonopods mostly absent or rudimentary, when present not moveable by muscles; gonopods sunk in a pocket and more or less concealed; grinding plate of mandibles with a pitted area and adjacent fluted band or file, or if this development is absent, the cutting teeth are also aborted or weak; labroclypeal processes absent ..... JULIDEA

   Telopodite of anterior gonopods strongly developed and always moveable by muscles; gonopods not sunk in a pocket, freely exposed; grinding plate of mandibles without pits and fluting; labroclypeal processes present ..... PARAIULIDEA

Suborder JULIDEA

Family JULIDAE

Genus BRACHYIULUS Berlese 1884, p. 1.

TYPE SPECIES: *Julus pusillus* Leach, by original designation?

Brachyiulus lusitanus Verhoeff, 1898, p. 154, fig. 28.

TYPE: Zool. Mus. Berlin.

TYPE LOCALITY: "Herzegowina."

OTHER LOCALITIES: North America; Tacubaya, D. F.; Patzcuaro, Michoacan, Mexico (Jawlowski 1930).

Genus DIPLOIULUS Berlese 1884, p. 2.

TYPE SPECIES: *Julus boleti* Koch, by original designation?

For synonymy and bibliography of this European genus and the following introduced species see Chamberlin and Hoffman 1958.

Diploiulus latistriatus (Curtis 1845), p. 229.

TYPE: British Mus.

TYPE LOCALITY: England.

OTHER LOCALITIES: North America: reported as *Cylindroiulus frisius* Verhoeff, from Xochimilco, D. F., and Patzcuaro, Michoacan, Mexico (Jawlowski 1930).

Suborder PARAIULIDEA

KEY TO THE FAMILIES OF PARAIULIDEA

1. Mandible with 4 pectinate lamellae; gnathochilarium of similar form in both sexes; neither the second nor the seventh pair of male legs modified; first legs of male with 1 to 6 joints.
   NEMASOMATIDAE

Mandible with 7 or 8 pectinate lamellae; gnathochilarium different in the two sexes; first male legs with 6 joints and much thickened, the second and often the seventh legs also modified. PARAIULIDAE

Family NEMASOMATIDAE

Genus **BLANIULUS** Gervais 1836, p. 435.

TYPE SPECIES: *Julus guttulatus* Bosc, by original designation?

Blaniulus guttulatus (Bosc 1791), p. 10.

TYPE: Not known to exist.

TYPE LOCALITY: France.

OTHER LOCALITIES: North America: Cultivated areas of Canada and the United States. Chapultepec park, and Mexico City, D. F., Mexico (Chamberlin 1943b).

For synonymy and bibliography of this introduced European species see Chamberlin and Hoffman 1958.

Genus **NOPOIULUS** Menge 1851, p. 7.

TYPE SPECIES: *Nopoiulus punctulatus* Menge, by original designation?

Nopoiulus armatus Nem 1895, p. 2.

TYPE: Present location?

TYPE LOCALITY: Vicinity of Prague, Czechoslovakia.

OTHER LOCALITY: North America: Patzcuaro, Michoacan, Mexico (Jawlowski 1930).

Nopoiulus minutus (Brandt 1821), p. 105.

TYPE: Not known to exist.

TYPE LOCALITY: "Eastern shore of Virginia" (Say), but introduced there from Europe.

OTHER LOCALITIES: North America: United States and Canada. Chapultepec Park, and Salazar, D. F., Mexico (Chamberlin 1943b).

For synonymy and bibliography of this introduced species see Chamberlin and Hoffman 1958.

Family PARAIULIDAE

Genus **PARAIULUS** Humbert and Saussure 1869, p. 155.

Mexicoiulus Verhoeff 1926, p. 66. New synonymy suggested by N. B. Causey.

TYPE SPECIES: *Paraiulus olmecus* Humbert and Saussure, by monotypy.

Paraiulus amulensis Pocock 1903, p. 55.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Amula, Guerrero, Mexico.

Paraiulus aztecus Pocock 1903, p. 56.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.
Paraiulus dampfi (Verhoeff). New combination suggested by N. B. Causey.
Mexicoiulus dampfi Verhoeff 1926, p. 67, figs. 4-11.
TYPE: Zool. Mus. Munchen (H).
TYPE LOCALITY: Desierto de los Leones, D. F., Mexico.
Paraiulus filicornis (Saussure).
Julus filicornis Saussure 1860, p. 377; Pocock 1907, p. 58.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE LOCALITY: Veracruz, Mexico.
OTHER LOCALITY: Cuernavaca, Mexico (Saussure and Humbert 1872).
Paraiulus olmecus Humbert and Saussure 1869, p. 155.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE AND PARATYPE LOCALITY: Moyoapan, Mexico.
Paraiulus phloibius Chamberlin 1942a, p. 60.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Cerro Tancítaro, Michoacan, Mexico.
Paraiulus pueblanus Chamberlin 1943b, p. 30.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Rio Frio, Puebla, Mexico.
Paraiulus rasilis (Karsch).
Julus rasilis Karsch 1881, p. 17; Pocock 1907, p. 58.
TYPE: Zool. Mus. Berlin (H).
TYPE AND PARATYPE LOCALITY: Puebla, Mexico.
Paraiulus rosanus Chamberlin 1943b, p. 31.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Santa Rosa, D. F., Mexico.
Paraiulus schachti (Chamberlin).
Thriniulus schachti Chamberlin 1941b, p. 20; 1943b, p. 31.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Tancítaro, Michoacan, Mexico.
Paraiulus schmidti Chamberlin 1952b, p. 18.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Volcán Tajumulco, Guatemala.
Paraiulus stylifer Pocock 1907, p. 57.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Guatemala.
Paraiulus tarascus (Saussure).
Julus tarascus Saussure 1860, p. 378; Saussure and Humbert 1872, p. 98.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE LOCALITY: Aguengueo District, Michoacan, Mexico.

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Paraiulus viganus Chamberlin 1952b, p. 19.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Las Vigas, Veracruz, Mexico.
Paraiulus zempoalus Chamberlin 1943b, p. 31.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Parque Nacional de Zempoala, Morelos, Mexico.

Genus PHENIULUS Chamberlin 1943b, p. 29.

TYPE SPECIES: *Pheniulus phenotypus* Chamberlin, by original designation.
Pheniulus mimeticus Chamberlin 1943b, p. 30.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Ixtapan del Oro, D. F., Mexico.
Pheniulus phenotypus Chamberlin 1943b, p. 30.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Oaxtepec, Morelos, Mexico.

Genus THRINIULUS Chamberlin 1940b, p. 21.

TYPE SPECIES: *Paraiulus leucoclius* Chamberlin, by original designation.
Thriniulus leucoclius (Chamberlin).
Paraiulus leucoclius Chamberlin 1922, p. 19; 1940b, p. 21.
TYPE: U.S. Nat. Mus., no. 829.
TYPE LOCALITY: Actele, Guatemala. (Probably Actelá.)
PARATYPE LOCALITIES: Same and Tectic, Santa Rosa, Guatemala.

Order SPIROBOLIDA

KEY TO THE SUBORDERS OF SPIROBOLIDA

1. Inner gonopods (phallopods or posterior gonopods) connected by membrane and a sclerite, or only by membrane; posterior plates (telopodites of anterior gonopods) contiguous or nearly so along inner basal sides ..... TRIGONIULIDEA
   Inner gonopods not directly connected; posterior plates well separated at base ..... SPIROBOLIDEA

Suborder SPIROBOLIDEA

KEY TO THE FAMILIES OF SPIROBOLIDEA

1. Prozonites of some segments usually with a pair of scobinae; anterior sternal plate of gonopods with apex produced distally, nearly

equalling or surpassing tips of anterior plates (coxae or coxal endites), which usually are mesally produced; distal joint of inner gonopods elongate, usually quite slender and outwardly biramous ..... RHINOCRICIDAE

Prozonites without scobinae; anterior sternal plate of gonopods transverse, subtriangular, or rarely distally produced; inner gonopods usually short and stout, not biramous near apex 2

2. Inner gonopods with apical and basal elements forming a continuous inward curve ..... SPIROBOLIDAE

Inner gonopods with apical and basal elements not forming a continuous inward curve 3

3. Inner gonopods with outer joint in a nearly continuous straight line, with basal elements heavy ..... ALLOPOCOCKIIDAE

Inner gonopods with each terminal joint at an angle to the coxal element; lowest joint slender 4

4. Anterior gonopods with mesal margins long and in contact much of length; segment 2 usually with a spirobolus-like production below lateral angle of segment 1 ..... MESSICOBOLIDAE

Anterior gonopods with mesal margins short or, if elongate, generally well separated, rarely in contact for a short distance; segment 2 seldom much produced below lateral angle of segment 1 .. 5

5. First segment with front and back margins each side converging downward to an acute angle ..... ATOPETHOLIDAE

First segment with front and back margins each side not strongly converging downward; lateral margin broadly rounded. SPIROBOLELLIDAE

Family ALLOPOCOCKIIDAE

In his treatment of this family in 1960, Keeton did not mention the genus *Arolus* Chamberlin 1922 although it was described as closely related to *Allopocockia*. He also appears to have overlooked the paper by Kraus 1954 in which *Arolus* was placed as a synonym of that genus. He did consider that *Chelogonobolus* might be a synonym of *Allopocockia* but lack of material for study caused him to withhold judgement. It appears to me that *Arolus purulanus* offers distinct connection of these two genera but they are still kept apart until further study of *Allopocockia tylopus* can be made.

Genus ALLOPOCOCKIA Brolemann 1913, p. 478.

Arolus Chamberlin 1922, p. 34; Kraus 1954, p. 336.

TYPE SPECIES: *Spirobolellus tylopus* Pocock, by original designation.

Allopocockia purulana (Chamberlin).

Arolus purulanus Chamberlin 1922, p. 35; Kraus 1954, p. 336.

TYPE: U.S. Nat. Mus., no. 842.

TYPE AND PARATYPE LOCALITY: Purulhá, Guatemala.

Allopocockia tylopus (Pocock).

Spirobolellus tylopus Pocock 1908, p. 87; Brolemann 1913, p. 478.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Tecpan, Guatemala.

Genus CHELOGONOBOLUS Carl 1919, p. 399.

TYPE SPECIES: *Spirobolus nahuus* Saussure and Humbert, by original designation.

Chelogonobolus atriculus (Pocock).

Spirobolellus articulus Pocock 1908, p. 88; Keeton 1960b, p. 137.

Allopocockia articulus Kraus 1954, p. 336.

TYPE: British Mus.

TYPE LOCALITY: Volcán de Agua, Guatemala.

Chelogonobolus nahuus (Humbert and Saussure).

Spirobolus nahuus Humbert and Saussure 1869, p. 154.

Spirobolellus nahuus Pocock 1908, p. 88; Carl 1919, p. 401.

TYPE: Mus. Hist. Nat. Geneve.

TYPE AND PARATYPE LOCALITY: Sierra de Moyoapan, Eastern Cordillera, Mexico.

Chelogonobolus rotundatus (Kraus). New combination.

Allopocockia rotundata Kraus 1954b, p. 337.

TYPE: Senckenberg Mus., Frankfurt.

TYPE AND PARATYPE LOCALITY: Monte Cristo, Metapan Mts., Dept. Santa Ana, El Salvador.

Genus SCHMIDTOLUS Chamberlin 1953a, p. 149.

TYPE SPECIES: *Schmidtolus chichivacus* Chamberlin, by original designation.

Schmidtolus chichivacus Chamberlin 1953a, p. 149.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Chichivac, Guatemala.

PARATYPE LOCALITIES: Same, and Sta. Elena, near Tecpan, Guatemala.

Schmidtolus parvior Chamberlin 1953a, p. 150.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Volcán Tajumulco, Guatemala.

Family ATOPETHOLIDAE

Genus ATOPETHOLUS Chamberlin 1918b, p. 167.

Orthichelus Chamberlin and Hoffman 1950, p. 7: Hoffman and Orcutt 1960, p. 133.

TYPE SPECIES: *Atopetholus californicus* Chamberlin, by original designation.

Atopetholus nigrescens (Chamberlin).

Onychelus nigrescens Chamberlin 1923a, p. 407; Hoffman and Orcutt 1960, p. 139.

TYPE: Mus. California Acad. Sci., no. 1265.

TYPE LOCALITY: Isla Coronados, Gulf of California, Mexico.

Genus CENTRELLUS Cook 1911a, p. 154.

Toltecolus Chamberlin 1943b, p. 27; Hoffman and Orcutt 1960, p. 123.

TYPE SPECIES: *Centrellus falcatus* Cook, by original designation.

Centrellus falcatus Cook 1911a, p. 156.

TYPE: U.S. Nat. Mus., no. 800.

TYPE AND PARATYPE LOCALITY: Guanajuato, Mexico.

Centrellus kerrensis (Chamberlin and Mulaik).

Eurellus kerrensis Chamberlin and Mulaik 1941, p. 61; Hoffman and Orcutt 1960, p. 124.

Toltecolus garcianus Chamberlin 1943b, p. 27; Hoffman and Orcutt 1960, p. 124.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Raven Ranch, Kerr Co., Texas.

OTHER LOCALITIES: Garcia, near Monterrey, Nuevo León, Mexico (Chamberlin 1943b). Real, Presidio, and Val Verde Counties, Texas (Hoffman and Orcutt 1960).

Genus COMANCHELUS Hoffman and Orcutt 1960, p. 128.

TYPE SPECIES: *Toltecolus chihuanus* Chamberlin, by original designation.

Comanchelus chihuanus (Chamberlin).

Toltecolus chihuanus Chamberlin 1947a, p. 10; Hoffman and Orcutt 1960, p. 128.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Chihuahua City, Chihuahua, Mexico.

Genus CYCLOTHYROPHORUS Pocock 1908, p. 83.

TYPE SPECIES: *Cyclothyrophorus salvini* Pocock, by original designation.

Cyclothyrophorus heteropygus (Humbert and Saussure).

Spirobolus heteropygus Humbert and Saussure 1869, p. 154; Pocock 1908, p. 85.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Cuernavaca, Mexico.

Cyclothyrophorus salvini Pocock 1908, p. 84.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Amula, Guerrero, Mexico.

OTHER LOCALITY: Colima, Mexico (Hoffman, unpublished).

After examination of the Colima specimens, R. L. Hoffman assured me that the genus is an atopetholid.

Cyclothyrophorus valvanus (Karsch).

Spirobolus valvanus Karsch 1881, p. 55; Pocock 1908, p. 87.

TYPE: Zool. Mus. Berlin (H).

TYPE AND PARATYPE LOCALITY: Puebla, Mexico.

Genus SAUSSUROBOLUS Carl 1919, p. 389.

TYPE SPECIES: *Julus nietanus* Saussure, by original designation.

Saussurobolus neglectus Carl 1919, p. 391.

Spirobolus nietanus Saussure and Humbert 1872, p. 89, in part.

TYPE: Mus. Hist. Nat. Geneve.

TYPE AND PARATYPE LOCALITY: Cuernavaca, Morelos, Mexico.

Saussurobolus nietanus (Saussure).

Julus nietanus Saussure 1860, p. 565.

Spirobolus nietanus Saussure and Humbert 1872, p. 89.

Cyclothyrophorus nietanus Pocock 1908, p. 84; Carl 1919, p. 390.

TYPE: Mus. Hist. Nat. Geneve.

TYPE LOCALITY: Cuernavaca, Morelos, Mexico.

Saussurobolus zacatecus (Chamberlin).

Arinolus zacatecus Chamberlin 1947b, p. 51; Hoffman and Orcutt 1960, p. 147.

TYPE: Acad. Nat. Sci. Philadelphia, no. 9974.

TYPE LOCALITY: Sierra Temperosa del Oro, Zacatecas, Mexico.

Genus SCOBINOMUS Loomis 1953, p. 420.

TYPE SPECIES: *Scobinomus serratus* Loomis, by original designation.

Scobinomus serratus Loomis 1953, p. 420.

TYPE: U.S. Nat. Mus., no. 2091.

TYPE LOCALITY: Fourteen mi. north of Ensenada, Baja California, Mexico.

PARATYPE LOCALITIES: Same, and Ceregas Canyon, 8-10 mi. from Ensenada, Baja California, Mexico.

Genus TARASCOLUS Chamberlin 1943b, p. 25.

TYPE SPECIES: *Tarascolus bolivari* Chamberlin, by original designation.

Tarascolus bolivari Chamberlin 1943b, p. 26.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Zitácuaro, Michoacan, Mexico.

Tarascolus clarus Chamberlin 1943b, p. 26.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Santa Rosa, D. F., Mexico.

PARATYPE LOCALITIES: Same, and Pedregal de San Angel, Mexico (D. F.?).

Genus WATICHELUS Chamberlin 1949, p. 169.

TYPE SPECIES: *Onychelus smithi* Chamberlin, by original designation.

Watichelus cooki Loomis 1949, p. 243.

TYPE: U.S. Nat. Mus., no. 2516.

TYPE AND PARATYPE LOCALITY: Descanso, Baja California, Mexico.

Watichelus emarginatus Loomis 1949, p. 243.

TYPE: U.S. Nat. Mus., no. 2515.

TYPE AND PARATYPE LOCALITY: Eight mi. south of Tijuana, Baja California, Mexico.

Family MESSICOBOLIDAE New

When Hoffman and Orcutt 1960 published their synopsis of the family Atopetholidae they excluded three genera that had been associated with it at one time or another. These genera are *Anelus*, *Cyclothyrophorus*, and *Messicobolus*, which they indicated belong in one or more undefined spirobolid families. Since then Hoffman has obtained fresh material of *Cyclothyrophorus salvini*, from Mexico, and has determined that the genus is a true atopetholid. While it is beyond the scope of this checklist to go into the study necessary to determine if the two remaining genera belong in only a single family, these waifs require some assignment for inclusion here and the new family Messicobolidae is proposed for them, with *Oxobolus* Chamberlin 1922 also included.

This family is characterized as composed of intermediate to rather large size species with anterior plates of the gonopods more or less produced at the mesodistal corners; a short but broad sternum (ventral plate); and short, stout, generally quite simple inner gonopods.

Genus ANELUS Cook 1911a, p. 160.

TYPE SPECIES: *Anelus reduncus* Cook, by original designation.

Anelus richardsoni (Pocock).

Spirobolellus richardsoni Pocock 1908, p. 87; Cook 1911a, p. 163.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Tampico, Tamaulipas, Mexico.

Genus MESSICOBOLUS Brolemann 1914, p. 32.

TYPE SPECIES: *Spirobolus godmani* Pocock, by original designation.

Messicobolus collaris (Chamberlin). New combination suggested by W. T. Keeton and approved by R. L. Hoffman.

Aztecolus collaris Chamberlin 1953a, p. 148.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Volcán Tajumulco, Guatemala.

Messicobolus eximius (Porat). New combination.

Spirobolus eximius Porat 1889a, p. 248.

TYPE: Location unknown but possibly Nat. Hist. Mus. Brussels (H).

TYPE AND PARATYPE LOCALITY: Guatemala.

Included in this genus on the basis of its association with *M. mystecus* (Saussure), Carl 1919.

Messicobolus godmani (Pocock).

Spirobolus godmani Pocock 1908, p. 78; Brolemann 1914, p. 32.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.

Messicobolus hoogstraali Chamberlin 1941d, p. 254; original spelling hoogstralli.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Ojo de Aguas, Sabinas Hidalgo, Nuevo León, Mexico.

Messicobolus hoplomerus (Pocock).

Spirobolus hoplomerus Pocock 1908, p. 76; Carl 1918, p. 460.

TYPE: British Mus.

TYPE LOCALITY: Costa Cuca, Pacific slope, Guatemala.

OTHER LOCALITY: Guatemala (Carl 1918).

Messicobolus monticola (Pocock). New combination.

Spirobolus monticola Pocock 1908, p. 80.

TYPE: British Mus.

TYPE LOCALITY: Omilteme, Guerrero, Mexico.

Above combination made on basis of Pocock's association of the species with *M. mystecus*.

Messicobolus mystecus (Saussure).

Julus mystecus Saussure 1860, p. 569.

Spirobolus mystecus Saussure and Humbert 1872, p. 177; Carl 1919, p. 386.

TYPE: Mus. Hist. Nat. Geneve.
TYPE AND PARATYPE LOCALITY: Oaxaca, Mexico.
OTHER LOCALITY: San Andreas Tuxtla, Mexico (Pocock 1908).

Messicobolus pilsbryi Chamberlin 1947b, p. 53.
TYPE: Acad. Nat. Sci. Philadelphia, no. 9976.
TYPE LOCALITY: Pablillo, Nuevo León, Mexico.

Messicobolus raui Chamberlin 1941b, p. 13.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Tamazunchale, San Luis Potosí, Mexico.

Messicobolus stolli (Pocock).
Spirobolus stolli Pocock 1908, p. 77; Carl 1918, p. 461.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Pachuta, Guatemala.

Messicobolus tepanecus (Saussure). New combination.
Julus tepanecus Saussure 1859, p. 332.
Spirobolus tepanecus Saussure and Humbert 1872, p. 88.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE AND PARATYPE LOCALITY: Córdoba, Mexico.
Above combination made on basis of Saussure's illustrations.

Messicobolus totonacus Chamberlin 1943b, p. 25.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Cumbres, Veracruz, Mexico.

Messicobolus tzendalus (Saussure). New combination.
Julus tzendalus Saussure 1860, p. 570.
Spirobolus tzendalus Saussure and Humbert 1872, p. 178.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE LOCALITY: Oaxaca, Mexico.
Above combination made on basis of Pocock's association of the species with *mystecus* as possibly an "old and large example of mystecus."

Messicobolus zonatus Carl 1918, p. 462.
TYPE: Mus. Hist. Nat. Geneve.
TYPE LOCALITY: Guatemala.

Species of Uncertain Position.

The following three species, all apparently founded on single females, cannot be assigned definitely to any genus but, for convenience and until topotype males are available, are tentatively placed in *Messicobolus*.

Messicobolus amulensis (Pocock). New combination.
Spirobolus amulensis Pocock 1908, p. 79.
TYPE: British Mus.
TYPE LOCALITY: Amula, Guerrero, Mexico.

Messicobolus platyops (Pocock). New combination.
Spirobolus platyops Pocock 1908, p. 76.

TYPE: British Mus.

TYPE LOCALITY: Mescala, Mexico.

Messicobolus reptans (Porat). New combination.

Spirobolus reptans Porat 1889a, p. 250.

TYPE: Location unknown (H).

TYPE LOCALITY: Guanajuato, Mexico.

Genus **OXOBOLUS** Chamberlin 1922, p. 30.

TYPE SPECIES: Oxobolus virilis Chamberlin, by original designation.

Oxobolus cinctus Chamberlin 1922, p. 32.

TYPE: U.S. Nat. Mus., no. 839.

TYPE LOCALITY: Trece Aguas, Guatemala.

Oxobolus cratus Chamberlin 1922, p. 33.

TYPE: U.S. Nat. Mus., no. 840.

TYPE LOCALITY: "On road to Los Piñales," Guatemala.

Oxobolus distinctus Kraus 1954b, p. 333.

TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: Monte Cristo, Metapan Mts., Dept. Santa Ana, El Salvador.

Oxobolus magnificus Causey 1954, p. 61.

TYPE: Illinois St. Nat. Hist. Surv., Urbana.

TYPE LOCALITY: Three mi. northwest of Rancho Monserrate, Chiapas, Mexico.

Oxobolus mundus Chamberlin 1953b, p. 69.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: San Pedro Sula, Honduras.

Oxobolus pictus Chamberlin 1922, p. 33.

TYPE: U.S. Nat. Mus., no. 841.

TYPE AND PARATYPE LOCALITY: Cobán, Guatemala.

Oxobolus santanus Chamberlin 1953b, p. 69.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Head of Rio Santa Ana, in San Pedro Sula, Honduras.

Oxobolus tardus Causey 1954, p. 61.

TYPE: Illinois St. Nat. Hist. Surv., Urbana.

TYPE LOCALITY: Seventeen mi. southwest of Simojovel, Chiapas, Mexico.

Oxobolus virilis Chamberlin 1922, p. 31.

TYPE: U.S. Nat. Mus., no. 838.

TYPE AND PARATYPE LOCALITY: Samac, Cobán, Guatemala.

Family RHINOCRICIDAE

Genus EURHINOCRICUS Brolemann 1903, p. 131.

TYPE SPECIES: *Rhinocricus (Eurhinocricus) biolleyi* Brolemann, by monotypy.

Eurhinocricus barrios Chamberlin 1953a, p. 138.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Escobas, opposite Point Barrios, Guatemala.

Eurhinocricus biolleyi (Brolemann).

Rhinocricus (Eurhinocricus) biolleyi Brolemann 1903, p. 132; Hoffman 1953d, p. 182.

Rhinocricus biolleyi several authors.

Rhinocricus wheeleri Chamberlin 1922, p. 21; Hoffman 1955, p. 33.

Rhinocricus cocos Chamberlin 1947b, p. 38; Hoffman 1953d, p. 182.

TYPE: Mus. Nat. Hist. Natur., Paris (H).

TYPE AND PARATYPE LOCALITY: Cocos Island, Costa Rica.

OTHER LOCALITIES: San José, and Cachí, Costa Rica (Brolemann 1905); Barro Colorado Island, Ft. Sherman, Piña area, Canal Zone (Loomis 1961); Almirante, Bocas del Toro Prov., Panama (Loomis 1964).

Eurhinocricus chichivacus Chamberlin 1953a, p. 139.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Chichivac, near Tecpan, Guatemala.

Eurhinocricus cooki Loomis 1961, p. 110.

TYPE: U.S. Nat. Mus., no. 2648.

TYPE AND PARATYPE LOCALITIES: Piña area, and Barro Colorado Island, Canal Zone.

Eurhinocricus eutypus Chamberlin 1953a, p. 139.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Volcán Tajumulco, Guatemala.

Eurhinocricus fissus Verhoeff 1937, p. 97.

TYPE: Zool. Mus. Munchen (H).

TYPE LOCALITY: Sierra de las Victoria, between Todos Santos and Miraflores, Baja California, Mexico.

Eurhinocricus omiltemae (Pocock).

Rhinocricus omiltemae Pocock 1907, p. 67; Hoffman 1953d, p. 182.

TYPE: British Mus.

TYPE LOCALITY: Omilteme, Guerrero, Mexico.

Eurhinocricus parvissimus Hoffman 1953d, p. 182.

TYPE: U.S. Nat. Mus., no. 2062.

TYPE AND PARATYPE LOCALITY: Finca Guatemoc, on Volcán Tacana, above Cacahuatan, Chiapas, Mexico.

Eurhinocricus pygmoides (Chamberlin).

Rhinocricus pygmoides Chamberlin 1933, p. 22,; Hoffman 1955, p. 35.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Parismina, Costa Rica.

Eurhinocricus storkani Verhoeff 1937, p. 98.

TYPE: Zool. Mus. Munchen (H).

TYPE LOCALITY: Manzanillo (Colima?), Mexico.

Genus **OXYPYGE** Silvestri 1896a, p. 4.

TYPE SPECIES: *Oxypyge varicolor* Silvestri, by monotypy.

Oxypyge benedictus Chamberlin 1925, p. 40.

TYPE: Mus. Comp. Zool.

TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.

OTHER LOCALITIES: Same and Piña area, Canal Zone (Loomis 1961).

Oxypyge confusa Chamberlin 1922, p. 28.

TYPE: U.S. Nat. Mus., no. 835.

TYPE LOCALITY: Cacao, Guatemala. This locality probably is about 25 km. southeast of Puerto Barrios, near the Honduran border.

Oxypyge curticaudus Chamberlin 1953a, p. 143.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Bobos River, Izabal, Guatemala.

Oxypyge equalis Chamberlin 1922, p. 29.

TYPE: U.S. Nat. Mus., no. 837.

TYPE LOCALITY: Trece Aguas, Guatemala.

Oxypyge isolatus Chamberlin 1925, p. 40.

TYPE: Mus. Comp. Zool.

TYPE AND PARATYPE LOCALITY: Barro Colorado Island, Canal Zone.

Oxypyge socia Chamberlin 1922, p. 28.

TYPE: U.S. Nat. Mus., no. 836.

TYPE LOCALITY: Cacao, Guatemala. See note under *O. confusa.*

Oxypyge varicolor Silvestri 1896a, p. 4.

TYPE: Zool. Mus. Univ. Torino (H).

TYPE LOCALITY: Punta Sabana, near Lago de Pita, Darien Prov., Panama.

OTHER LOCALITY: Taboga Island, Panama Prov., Panama (Chamberlin 1947c).

Genus **OXYPYGIDES** Chamberlin 1922, p. 24.

TYPE SPECIES: *Oxypygides mesites* Chamberlin, by original designation.

Oxypygides lapidicina Chamberlin 1922, p. 26.

TYPE: U.S. Nat. Mus., no. 833.

TYPE AND PARATYPE LOCALITY: Candalaria Rocks, Scamay Estuary, Guatemala.

Oxypygides mesites Chamberlin 1922, p. 25.

TYPE: U.S. Nat. Mus., no. 832.

TYPE AND PARATYPE LOCALITY: Cacao, Guatemala. See note under *O. confusa*.

Genus RHINOCRICUS Karsch 1881, p. 68.

TYPE SPECIES: *Spirobolus (Rhinocricus) parcus* Karsch, by designation of Pocock.

Rhinocricus angusticollis (Karsch).

Spirobolus (Rhinocricus) angusticollis Karsch 1881, p. 70; Pocock 1907, p. 70.

TYPE: Zool. Mus. Berlin (H).

TYPE AND PARATYPE LOCALITY: Puebla, Mexico.

Rhinocricus aposematus Pocock 1907, p. 63.

TYPE: British Mus.

TYPE LOCALITY: Santa Clara, Costa Rica.

Rhinocricus approximatus Hoffman 1950b, p. 69.

Rhinocricus simulans Chamberlin 1947b, p. 39.

Rhinocricus simulatus Chamberlin 1950, p. 6.

TYPE: Acad. Nat. Sci. Philadelphia, no. 9963.

TYPE LOCALITY: Nicaragua.

Rhinocricus atoyacus Pocock 1907, p. 65.

TYPE: British Mus.

TYPE LOCALITY: Atoyac, Veracruz, Mexico.

Rhinocricus aurocinctus Pocock 1907, p. 62.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Milpas, Durango, Mexico.

Rhinocricus aztecus (Saussure).

Julus aztecus Saussure 1859, p. 331; Pocock 1907, p. 68.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: "Veracruz, Cordoba, Orizaba, etc," Mexico.

Rhinocricus brevicollis (Voges).

Spirobolus brevicollis Voges 1878, p. 191; Pocock 1907, p. 69.

TYPE: Mus. Univ. Gottingen (H).

TYPE AND PARATYPE LOCALITY: Original spelling "Misatlan," ?Mazatlan, Mexico.

Rhinocricus centralis Chamberlin 1922, p. 21.

TYPE: U.S. Nat. Mus., no. 830.

TYPE LOCALITY: Costa Rica.

Rhinocricus chichen Chamberlin 1953a, p. 145.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Chichen Itza, Yucatan, Mexico.

Rhinocricus chichimecus (Saussure).
Julus chichimecus Saussure 1859, p. 331.
Spirobolus chichimecus Saussure and Humbert 1872, p. 82; Pocock 1907, p. 69.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE AND PARATYPE LOCALITY: Mexico.
Rhinocricus chitarianus Chamberlin 1933, p. 23.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Chitaria, Costa Rica.
Rhinocricus costaricensis Brolemann 1905, p. 375.
TYPE: Mus. Nat. Hist. Natur., Paris.
TYPE LOCALITY: Cariblanco, Costa Rica.
Rhinocricus dugesi (Bollman).
Spirobolus (Rhinocricus) dugesi Bollman 1893, p. 194.
TYPE: U.S. Nat. Mus.? or lost (H).
TYPE LOCALITY: Guanajuato, Mexico.
Rhinocricus edenus Chamberlin 1947b, p. 39.
TYPE: Acad. Nat. Sci. Philadelphia, no. 9962.
TYPE LOCALITY: Eden, Nicaragua.
Rhinocricus ferrugineus (Daday).
Spirobolus ferrugineus Daday 1889, p. 130; Pocock 1907, p. 70.
TYPE: Hungarian Nat. Mus., Budapest? (H).
TYPE LOCALITY: Panama.
Rhinocricus hagedussi (Daday).
Spirobolus hagedussii Daday 1889, p. 130; Pocock 1907, p. 70.
TYPE: Hungarian Nat. Mus., Budapest? (H).
TYPE AND PARATYPE LOCALITY: Panama.
Rhinocricus ixtapanus Chamberlin 1943b, p. 18.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Ixtapan del Oro, Mexico.
Rhinocricus lamprus Chamberlin 1943b, p. 19.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Xilitla, San Luis Potosí, Mexico.
Rhinocricus malkini Chamberlin 1956, p. 157.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Musawas, Waspuc River, Nicaragua.
Rhinocricus marci Pocock 1907, p. 66.
TYPE: British Mus.
TYPE LOCALITY: San Marcos, Nicaragua.
Rhinocricus mayanus Chamberlin 1947b, p. 43.
TYPE: Acad. Nat. Sci. Philadelphia, no. 9966.
TYPE LOCALITY: Yucatan, Mexico.
Rhinocricus mertensi Kraus 1954b, p. 334.
TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: At 43 km. beyond Sonsonate, Dept. Sonsonate, El Salvador.

PARATYPE LOCALITIES: Same and above Dorf Conchagua, Dept. Cuscatlan; Finca Los Angeles, Dept. La Libertad, El Salvador.

Rhinocricus morelus Chamberlin 1943b, p. 20.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: "Chapultepec," Cuernavaca, Morelos, Mexico.

Rhinocricus motulensis Chamberlin 1938a, p. 172.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: San Bulha Cenote, Motul, Yucatan, Mexico.

Rhinocricus mucronatus Brolemann 1911b, p. 120.

TYPE: Mus. Nat. Hist. Natur., Paris (H).

TYPE LOCALITY: Cache, Costa Rica.

Rhinocricus nicaraguanus Chamberlin 1922, p. 20.

TYPE: Mus. Comp. Zool., cat. no. 5017.

TYPE LOCALITY: Chontales Camoapa, Nicaragua.

Rhinocricus nodosicollis Brolemann 1905, p. 372.

TYPE: Mus. Nat. Hist. Natur., Paris.

TYPE AND PARATYPE LOCALITY: Cariblanco, Costa Rica.

Rhinocricus obesus Brolemann 1900, p. 107.

TYPE: Mus. Nat. Hist. Natur., Paris.

TYPE LOCALITY: Guatemala.

Rhinocricus obesus rubicundus Brolemann 1905, p. 376.

TYPE: Mus. Nat. Hist. Natur., Paris.

TYPE AND PARATYPE LOCALITY: Cariblanco, Costa Rica.

Rhinocricus ocraceus Brolemann 1900, p. 124.

Rhinocricus insulatus Chamberlin 1925, p. 39; Loomis 1964a, p. 114.

Rhinocricus williamsi Chamberlin 1940a, p. 15.

Eurhinocricus insulatus Hoffman 1955, p. 34.

Eurhinocricus williamsi Hoffman 1955, p. 35.

TYPE: Mus. Nat. Hist. Natur., Paris.

TYPE LOCALITY: Bas Obispo, near Gamboa, Canal Zone.

OTHER LOCALITIES: Barro Colorado Island, Canal Zone (Chamberlin 1925); many in Canal Zone and adjacent Panama Prov. Panama (Loomis 1961).

Rhinocricus olivaceus (Newport).

Spirobolus olivaceus Newport 1844, p. 268.

Julus olivaceus Gervais 1847, p. 184; Pocock 1907, p. 66.

TYPE: British Mus.

TYPE LOCALITY: Oaxaca, Mexico.

Rhinocricus pedrocola Chamberlin 1947b, p. 41.

TYPE: Acad. Nat. Sci. Philadelphia.

TYPE LOCALITY: Pedro Miguel, Canal Zone.

Rhinocricus plesius Chamberlin 1914, p. 187.

TYPE: Acad. Nat. Sci. Philadelphia.

TYPE LOCALITY: Rio Oro Valley, near Cachi, Costa Rica.

Rhinocricus potosianus Chamberlin 1941d, p. 252.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Valles, 7 mi. south of El Banito, San Luis Potosí, Mexico.

OTHER LOCALITIES: Xilitla, San Luis Potosí (Chamberlin 1943b); south of Mante, Tamaulipas (Loomis 1944); Tamazunchale, San Luis Potosí (Chamberlin 1953a; Causey 1954); near towns of El Limon, El Forlon, and Victoria, Tamaulipas (Chamberlin 1943b).

Rhinocricus rixi Pocock 1907, p. 64.

TYPE: British Mus.

TYPE LOCALITY: Chontales Copper Mine, Nicaragua.

Rhinocricus rogersi Pocock 1907, p. 61.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Costa Rica.

Rhinocricus salleanus Pocock 1907, p. 64.

TYPE: British Mus.

TYPE LOCALITY: Córdoba, Mexico.

Rhinocricus scobinatus Pocock 1907, p. 65.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Retalhuleu, Guatemala.

Rhinocricus simulans Chamberlin 1922, p. 22.

TYPE: U.S. Nat. Mus., no. 831.

TYPE LOCALITY: Costa Rica.

Rhinocricus smithi Pocock 1907, p. 62.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Omilteme and Amoquileca, Guerrero, Mexico.

OTHER LOCALITY: El Soledad, Oaxaca, Mexico (Causey 1954).

Rhinocricus stolli Pocock 1907, p. 62.

TYPE: British Mus.

TYPE LOCALITY: Cholhuitz, Guatemala.

OTHER LOCALITY: Cobán, Guatemala (Chamberlin 1922).

Rhinocricus tejerianus Chamberlin 1953a, p. 147.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Tejeria, Veracruz, Mexico.

Rhinocricus toltecus (Saussure).

Julus toltecus Saussure 1859, p. 331.

Spirobolus toltecus Saussure and Humbert 1872, p. 75; Pocock 1907, p. 68.

TYPE: Mus. Hist. Nat. Geneve.

TYPE LOCALITY: Córdoba, Mexico.

Rhinocricus totonacus (Saussure).

Julus totonacus Saussure 1860, p. 561;

Spirobolus totonacus Saussure and Humbert 1872, p. 176; Pocock 1907, p. 69.

TYPE: Mus. Hist. Nat. Geneve.

TYPE LOCALITY: Orizaba, Mexico.

Rhinocricus tristani Pocock 1907, p. 63.

TYPE: British Mus.

TYPE LOCALITY: Santa Clara, Costa Rica.

Rhinocricus zapotecus (Saussure).

Julus zapotecus Saussure 1860, p. 559.

Spirobolus zapotecus Saussure and Humbert 1872, p. 176; Pocock 1907, p. 69.

TYPE: Mus. Hist. Nat. Geneve.

TYPE AND PARATYPE LOCALITY: "The same country as the preceding," i.e., Mexico.

Genus **YUCATOBOLUS** Chamberlin 1938a, p. 173.

TYPE SPECIES: *Yucatobolus spukilensis* Chamberlin, by original designation.

Yucatobolus spukilensis Chamberlin 1938a, p. 173.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Spukil Cave, Calcehtok, Yucatan, Mexico.

Genus **ZIPYGE** Chamberlin 1925, p. 40.

TYPE SPECIES: *Oxypyge ferruginipes* Chamberlin, by original designation.

Zipyge ferruginipes (Chamberlin).

Oxypyge ferruginipes Chamberlin 1922, p. 27.

TYPE: U.S. Nat. Mus., no. 834.

TYPE AND PARATYPE LOCALITY: Cacao, Guatemala. Probably about 25 km. southeast of Puerto Barrios, near Honduran border.

Family SPIROBOLELLIDAE

Genus **MICROSPIROBOLUS** Silvestri 1898b, p. 75.

Barrobolus Chamberlin 1925, p. 41; Loomis 1964a, p. 114.

TYPE SPECIES: *Microspirobolus pulchellus* Silvestri, by monotypy.

Microspirobolus grammicus (Chamberlin).

Barrobolus grammicus Chamberlin 1925, p. 41; Loomis 1964a, p. 115.

TYPE: Mus. Comp. Zool.

TYPE AND TOPOTYPE LOCALITY: Barro Colorado Island, Canal Zone.

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Microspirobolus trifasciatus Loomis 1964a, p. 115.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Family SPIROBOLIDAE

Genus **AZTECOLUS** Chamberlin 1943b, p. 28.

TYPE SPECIES: *Spirobolus nigrior* Chamberlin, by original designation.

Aztecolus collaris Chamberlin 1953a, p. 148.

TYPE: Chicago Nat. Hist. Mus.

TYPE AND PARATYPE LOCALITY: Volcán Tajumulco, Guatemala.

Aztecolus nigrior (Chamberlin).

Spirobolus nigrior Chamberlin 1941d, p. 253; 1943b, p. 28.

? Aztecolus nigrior Chamberlin 1947b, p. 47; Keeton 1960a, p. 35.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Horsetail Falls, Hacienda Vista Hermosa, Villa Santiago, Nuevo León, Mexico.

PARATYPE LOCALITY: Ojo de Agua, Sabinas Hidalgo, Nuevo León, Mexico.

OTHER LOCALITIES: Linares Nuevo León (Chamberlin 1943b); Pablillo, Nuevo León (Chamberlin 1947b); Cañon de las Anahuas, Linares, Nuevo León; 13 mi. west of Milpillas, Zacatecas, Mexico (Keeton 1960a).

Aztecolus pablillo Chamberlin 1947b, P. 47.

TYPE: Acad. Nat. Sci. Philadelphia, no. 9969.

TYPE LOCALITY: Pablillo, Nuevo León, Mexico.

OTHER LOCALITY: Five mi. west of Gomez Farias, in Sierra Madre Oriental, Tamaulipas, Mexico (Keeton 1960a).

Genus **HILTONIUS** Chamberlin 1918b, p. 166.

TYPE SPECIES: *Hiltonius pulchrus* Chamberlin, by original designation.

Hiltonius callipus (Bollman).

Spirobolus callipus Bollman 1893, p. 191; Keeton 1960a, p. 114.

TYPE: Said to be in U.S. Nat. Mus. but not found recently.

TYPE AND PARATYPE LOCALITY: Guanajuato, Mexico.

Keeton lists this species under "nomen inquirendum" but states that Bollman's description is sufficient to assign the species to *Hiltonius*.

Hiltonius carpinus Chamberlin 1943b, p. 21.

Hiltonius crassus Chamberlin 1943b, p. 21; Keeton 1960a, p. 106.

Hiltonius tepoztlanus Chamberlin 1943b, p. 21; Keeton 1960a, p. 106.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Limón, Tamaulipas, Mexico.

PARATYPE LOCALITIES: Same, and Tepoztlan, Morelos, Mexico.

OTHER LOCALITIES: Ixtapan del Oro, Mexico, Mexico (Chamberlin 1943b).

Hiltonius carpinus vulcan (Chamberlin).

Aztecolus vulcan Chamberlin 1953a, p. 148; Keeton 1960a, p. 107.

Rhinocricus vulcan Chamberlin 1953a, p. 144; Keeton 1960a, p. 107.

Aztecolus fratrellus Chamberlin 1953a, p. 148; Keeton 1960a, p. 107.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Volcán Tajumulco, Guatemala.

OTHER LOCALITY: Same locality for type of *A. fratrellus*.

Hiltonius erythrotypus Chamberlin 1943b, p. 22.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Santa Rosa, D. F., Mexico.

This species is listed as "nomen inquirendum" by Keeton 1960a, p. 114.

Hiltonius fossulifer (Pocock).

Spirobolus fossulifer Pocock 1908, p. 78; Keeton 1960a, p. 102.

TYPE: British Mus. (presumed lost, Keeton 1960a, p. 105).

TYPE AND PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.

Hiltonius hebes (Bollman).

Spirobolus hebes Bollman 1887, p. 31.

Tylobolus hebes Cook 1904, p. 66; Loomis and Hoffman 1948, p. 51.

Hiltonius balboanus Chamberlin 1941b, p. 10; Loomis and Hoffman 1948, p. 51.

TYPE: U.S. Nat. Mus. but not found recently.

TYPE AND PARATYPE LOCALITY: San Diego, California.

OTHER LOCALITIES: Several in San Diego Co., California (Loomis and Hoffman 1948); Ceregus Canyon, Ensenada, Baja California, Mexico (Keeton 1960a).

Hiltonius mexicanus (Saussure).

Julus mexicanus Saussure 1859, p. 332.

Spirobolus mexicanus Saussure and Humbert 1872, p. 177.

Eurelus tancitarus Chamberlin 1941d, p. 255; Keeton 1960a, p. 100.

Hiltonius federalis Chamberlin 1943b, p. 22; Keeton 1960a, p. 100.

Hiltonius michoacanus Chamberlin 1943b, p. 23; Keeton 1960a, p. 100.

Hiltonius veracruzanus Chamberlin 1943b, p. 24; Keeton 1960a, p. 100.

TYPE: Mus. Hist. Nat. Geneve.

TYPE LOCALITY: Mexico.

OTHER LOCALITIES: D. F., and states of Michoacan, Morelos, and Veracruz, Mexico (see Keeton 1960a for exact localities).

Genus **TYLOBOLUS** Cook 1904, p. 65.

Californibolus Verhoeff 1944, p. 55; Keeton 1960a, p. 114.

Auxobolus Chamberlin 1949, p. 163; Keeton 1960a, p. 114.

TYPE SPECIES: *Tylobolus deses* Cook, by original designation.

Tylobolus claremontus Chamberlin 1918b, p. 165.

?Spirobolus californicus Bollman 1887, p. 50; Keeton 1960a, p. 121.

Tylobolus stebbinsi Chamberlin 1944, p. 113; Keeton 1960a, p. 121.

Auxobolus claremontus Chamberlin 1949, p. 163.

Auxobolus stebbinsi Chamberlin 1949, p. 165; Keeton 1960a, p. 122.

Auxobolus simulatus Chamberlin 1949, p. 165; Keeton 1960a, p. 122.

TYPE: Mus. Comp. Zool.

TYPE LOCALITY: Claremont, California.

OTHER LOCALITIES: St. Vincent, Baja California, Mexico (Bollman 1887). All other localities of above synonymous species in California.

Suborder TRIGONIULIDEA

Family TRIGONIULIDAE

Genus SPIROSTROPHUS Saussure and Zehntner 1902, p. 150.

TYPE SPECIES: *Spirobolus naresii* Pocock.

For full synonymy and bibliography of this genus and the following introduced species see Loomis and Hoffman 1948, p. 52.

Spirostrophus naresi (Pocock).

TYPE: British Mus.

TYPE LOCALITY: Mahé Island, Seychelles.

LOCALITIES IN CENTRAL AMERICA: Costa Rica (Chamberlin 1922; Cook 1911a; Loomis and Hoffman 1948).

Order SPIROSTREPTIDA

KEY TO THE SUBORDERS OF SPIROSTREPTIDA

1. Both anterior and posterior gonopods present and functional, the anterior pair usually with long flagellae; laminae linguales completely separated by the mentum ..... CAMBALIDEA

   Posterior pair of gonopods rudimentary or completely absent, anterior pair elaborate; laminae linguales not separated by the mentum ..... SPIROSTREPTIDEA

Suborder CAMBALIDEA

KEY TO THE FAMILIES OF CAMBALIDEA

1. Mentum divided, the promentum clearly separated . . . CAMBALIDAE

   Mentum entire, no separate promentum ..... LEIODERIDAE

Family CAMBALIDAE

Genus CAMBALA Gray 1832, pl. 135.

Eclytus Chamberlin 1952c, p. 10; preoccupied.

Eclomus Chamberlin 1952d, p. 71; Causey 1964a, p. 237.

TYPE SPECIES: *Julus annulatus* Say, by monotypy.

Cambala speobia (Chamberlin).

Eclytus (not Holmgren 1855) *speobius* Chamberlin 1952c, p. 11

Eclomus speobius Chamberlin 1952d, p. 71; Causey 1964a, p. 243.

Cambala caeca Loomis 1953, p. 417; Causey 1964a, p. 243.

Cambala captiosa Causey 1959, p. 69; Causey 1964a, p. 243.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Wyatt Cave, Edwards Co., Texas.

PARATYPE LOCALITIES: Same and Felton Cave, Edwards Co., Texas.

OTHER LOCALITIES: Found in numerous caves of central and southwest Texas. In letter of Nov. 18, 1964, Dr. Causey wrote that she had received specimens of a new subspecies of *speobia* from Cueva de los Lagos, Coahuila, Mexico, and suggested that I include the record here.

Genus MEXICAMBALA Causey 1964a, p. 244.

TYPE SPECIES: *Mexicambala russelli* Causey, by original designation.

Mexicambala russelli Causey 1964a, p. 244.

TYPE: American Mus. Nat. Hist.

TYPE AND PARATYPE LOCALITY: Cueva de la Parra, 5 km. north of Xilitla, San Luis Potosí, Mexico.

Family LEIODERIDAE

Genus ERGENE Chamberlin 1943a, p. 4.

TYPE SPECIES: *Ergene setosus* Chamberlin, by original designation.

Ergene setosus Chamberlin 1943a, p. 5.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: "Highway No. 1 and Tropic of Cancer," 19 mi. south of Ciudad Victoria, Tamaulipas, Mexico.

Genus LEIODERE Loomis 1938, p. 60.

TYPE SPECIES: *Leiodere torreyana* Loomis, by original designation.

Leiodere torreyana Loomis 1938, p. 61.

TYPE: U.S. Nat. Mus., no. 1313.

TYPE LOCALITY: Torrey Pines, La Jolla, California.

PARATYPE LOCALITY: Same and 20 mi. below Tijuana, Baja California, Mexico.

Genus MORELENE Chamberlin 1943b, p. 10.

TYPE SPECIES: *Morelene mundus* Chamberlin, by original designation.

Morelene mundus Chamberlin 1943b, p. 11.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Oaxtepec, Morelos, Mexico.

Suborder SPIROSTREPTIDEA

KEY TO THE FAMILIES OF SPIROSTREPTIDEA

1. Size small to intermediate, slender; gonopods relatively simple, lacking long, twisted, anterior branches . . . EPINANNOLENIDAE
   Size large, heavy bodied; gonopods quite complicated, each with a long, contorted, anterior branch . . . . . SPIROSTREPTIDAE

Family EPINANNOLENIDAE

Genus EPINANNOLENE Brolemann 1903, p. 135.

TYPE SPECIES: *Epinannolene pittieri* Brolemann, by monotypy.

Epinannolene affinis Loomis 1961, p. 114.
TYPE: U.S. Nat. Mus., no. 2649.
TYPE LOCALITY: Piña area, Canal Zone.
PARATYPE LOCALITIES: Same, and El Valle, Coclé Prov., Panama.

Epinannolene bicornis Brolemann 1905, p. 356.
TYPE: Mus. Nat. Hist. Natur., Paris.
TYPE LOCALITY: Cariblanco, Costa Rica.

Epinannolene caeca Loomis 1964a, p. 120.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Barro Colorado Island, Canal Zone.

Epinannolene pittieri Brolemann 1903, p. 136
TYPE: Mus. Nat. Hist. Natur., Paris.
TYPE AND PARATYPE LOCALITY: Cocos Island, Costa Rica.

Epinannolene plana Loomis 1961, p. 116.
TYPE: U.S. Nat. Mus., no. 2651.
TYPE AND PARATYPE LOCALITY: El Valle, Cocle Prov., Panama.

Epinannolene robusta Loomis 1961, p. 115.
TYPE: U.S. Nat. Mus., no. 2650.
TYPE AND PARATYPE LOCALITY: Cerro Campana, Panama Prov., Panama.

Epinannolene sulcata Loomis 1964a, p. 120.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: West of Finca Palo Santo, near Nueva California, Chiriquí Prov., Panama.

Family SPIROSTREPTIDAE

Genus GYMNOSTREPTUS Brolemann 1901, p. 153.

TYPE SPECIES: *Spirostreptus (Gymnostreptus) perfidus* Brolemann 1901, by present designation.

Gymnostreptus laetus Chamberlin 1922, p. 13.

TYPE: U.S. Nat. Mus., no. 823.

TYPE AND PARATYPE LOCALITY: Joyabaj, Guatemala.

Gymnostreptus vagans Chamberlin 1922, p. 13. Return to original combination.

Epistreptus (Microtrulius) vagans Attems 1950, p. 220.

Gymnostreptus pacificus Chamberlin 1922, p. 14; Attems 1950, p. 220.

Epistreptus (Microtrulius) pacificus Attems 1950, p. 220.

TYPE: U.S. Nat. Mus., no. 824.

TYPE LOCALITY: Candalaria Rocks, Scamay Estuary, Guatemala.

PARATYPE LOCALITY: Trece Aguas, Guatemala.

OTHER LOCALITIES: Santo Domingo de San Mateo, Costa Rica (Chamberlin 1922 for *G. pacificus);* various localities in nine departments of El Salvador (Kraus 1954b).

On the basis of the structure of the gonopods it seems necessary to return this species to its original designation.

Genus **ISOPOROSTREPTUS** Silvestri 1898b, p. 73.

Epistreptus Carl 1914, p. 865 (not Silvestri).

Pemptoporus Attems 1914a, p. 121; Hoffman 1953a, p. 150.

Scaphiostreptus Attems 1950, pp. 230, 236, in part (not Brolemann); Hoffman 1953a, p. 150.

TYPE SPECIES: *Isoporostreptus villicola* Silvestri, by monotypy.

Isoporostreptus pittieri Hoffman 1953a, p. 151.

TYPE: U.S. Nat. Mus., no. 2018.

TYPE LOCALITY: Los Siguas, Chiriquí Prov., Panama.

Genus **ORTHOPORUS** Silvestri 1897a, p. 7.

Diaporus Silvestri 1897a, p. 8; Pocock 1909, p. 93.

Scaphiostreptus Brolemann 1901, p. 150; Pocock 1909, p. 93.

TYPE SPECIES: *Orthoporus diaporoides* Silvestri, by monotypy.

Orthoporus absconsus Chamberlin 1922, p. 15. Return to original designation.

Scaphiostreptus absconsus Attems 1950, p. 231.

TYPE: U.S. Nat. Mus., no. 826.

TYPE LOCALITY: Santo Domingo de San Mateo, Pacific side, Costa Rica.

OTHER LOCALITIES: San José, Costa Rica (Chamberlin 1933); seven departments. El Salvador (Kraus 1954b); Zamorano, Tegucigalpa, Honduras (Loomis 1959b).

Orthoporus acanthethus Chamberlin 1947b, p. 57.

TYPE: Acad. Nat. Sci. Philadelphia, no. 9980.

TYPE LOCALITY: Piedras Negras, Guatemala.

Orthoporus ampussis (Karsch).

Spirostreptus ampussis Karsch 1881, p. 43; Pocock 1909, p. 102.

TYPE: Zool. Mus. Berlin (H).

TYPE LOCALITY: Puebla, Mexico.

Orthoporus asper (Attems). New combination.

Scaphiostreptus asper Attems 1950, p. 234.

TYPE: Naturh. Mus. Wien. (H).

TYPE LOCALITY: Mexico.

Orthoporus bisulcatus Chamberlin 1952b, p. 21.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Tejeria, Veracruz, Mexico.

Orthoporus bobos Chamberlin 1952b, p. 23.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Bobos River, Izabal, Guatemala.

Orthoporus canalis Chamberlin 1925, p. 38.

TYPE: Mus. Comp. Zool.

TYPE LOCALITY: Barro Colorado Island, Canal Zone.

OTHER LOCALITIES: Same, Monte Lirio, and Piña area, Canal Zone (Loomis 1961).

Orthoporus capucinus (Attems). New combination.

Scaphiostreptus capucinus Attems 1950, p. 234.

TYPE: Naturh. Mus. Wien. (H)

TYPE AND PARATYPE LOCALITY: Mexico

Orthoporus chihuanus Chamberlin 1947a, p. 11.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Chihuahua, Chihuahua, Mexico.

Suspected by Loomis 1963, p. 125, of being a synonym of *punctilliger*, itself a synonym of *ornatus*.

Orthoporus chiriquensis Pocock 1909, p. 97.

Diaporus chiriquensis Chamberlin 1922, p. 18; Loomis 1964a, p. 118.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Volcán de Chiriquí, Chiriquí, Panama.

The species redescribed by Attems 1950, p. 244, as *Scaphiostreptus (Diaporus) chiriquensis* is not that species.

Orthoporus cienegonus Chamberlin 1952b, p. 23.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Cienega de Flores, Nuevo León, Mexico.

Orthoporus cobanus Chamberlin 1922, p. 16.

TYPE: U.S. Nat. Mus., no. 828.

TYPE LOCALITY: Cobán-Caché, Guatemala.

PARATYPE LOCALITIES: Sepacuite; Secanquim; Joyabaj; Trece Aguas, Guatemala.

Orthoporus comminutus (Attems). New combination.
Scaphiostreptus comminutus Attems 1950, p. 239.
TYPE: Naturh. Mus. Wien. (H)
TYPE AND PARATYPE LOCALITY: Mexico.

Orthoporus confragosus (Karsch).
Spirostreptus confragosus Karsch 1881, p. 44.
Spirostreptus (Scaphiostreptus) confragosus Brolemann 1905, p. 367; Pocock 1909, p. 101.
TYPE: Zool. Mus. Berlin (H).
TYPE LOCALITY: San José, Costa Rica. Additional specimens Brolemann 1905.

Orthoporus conifer (Attems). New combination.
Scaphiostreptus (Diaporus) conifer Attems 1950, p. 243.
TYPE: Naturh. Mus. Wien. (H)
TYPE LOCALITY: Pons, Costa Rica.

Orthoporus cordovanus Pocock 1909, p. 98.
?Spirostreptus otomitus Saussure 1859, p. 330.
TYPE: British Mus.
TYPE LOCALITY: Córdoba, Mexico.

Orthoporus discriminans Chamberlin 1922, p. 16. Return to original designation.
Scaphiostreptus (S.) discriminans Causey 1960, p. 278.
TYPE: U.S. Nat. Mus., no. 827.
TYPE LOCALITY: Pancajché, Guatemala.
OTHER LOCALITY: Cueva Lanquin, Alta Verapaz, Guatemala (Causey 1960).

Orthoporus dybasi (Chamberlin).
Scaphiostreptus dybasi Chamberlin 1952b, p. 28; Causey 1964b, p. 175.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: El Fortín, Veracruz, Mexico.
OTHER LOCALITIES: Veracruz-Jalapa Highway, near Cunejos; El Fortín, Pasada Loma, Veracruz, Mexico (Causey 1964b).

Orthoporus esperanzae Chamberlin 1943b, p. 13.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Esperanza, Guanajuato, Mexico.

Orthoporus euthus Chamberlin 1952b, p. 25.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Esquintla, Tiquisate, Guatemala.

Orthoporus festae (Silvestri).
Plusioporus festae Silvestri 1896a, p. 3; Pocock 1909, p. 102.
Diaporus culebrae Chamberlin 1922, p. 18; Loomis 1961, p. 114.
Diaporus barroensis Chamberlin 1925, p. 39; Loomis 1961, p. 114.
TYPE: Mus. Zool. Univ. Torino (H).

TYPE LOCALITY: Punta Sabana, Darien, Panama.

OTHER LOCALITIES: Canal Zone: Culebra (Chamberlin 1922); Barro Colorado Island (Chamberlin 1925); Barro Colorado Island, Frijoles, Monte Lirio, Piña area (Loomis 1961). Panama Prov.: Juan Días and Taboga Island (Loomis 1961). Chiriquí Prov.: Boquete, Panama (Loomis 1961).

Orthoporus fortinus Chamberlin 1943b, p. 13.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: El Fortín, Veracruz, Mexico.

Orthoporus fraternus (Saussure).

Julus fraternus Saussure 1860, p. 374.

?Spirostreptus fraternus Saussure and Humbert 1872, p. 70; Pocock 1909, p. 101.

Orthoporus amulensis (?Spirostreptus fraternus) Pocock 1909, p. 98; Causey 1964b, p. 177.

Orthoporus morelus Chamberlin 1943b, p. 16; Causey 1964b, p. 177.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Yautepec, Morelos, Mexico.

OTHER LOCALITIES: Amula, Guerrero (Pocock 1909); Tepoztlan, Morelos (Chamberlin 1943b); 8 mi. east of Yautepec, and near Amacuzac, Morelos; between Jalapa and Banderilla, Veracruz; Oaxaca, Oaxaca; near Tehuitzingo, Puebla (Causey 1964b), Mexico.

Orthoporus gracilior Chamberlin 1952b, p. 25.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Volcán Tajumulco, Guatemala.

Orthoporus guerreronus (Chamberlin).

Gymnostreptus guerreronus Chamberlin 1942b, p. 8; 1943b, p. 13.

TYPE: Escuela Nat. Mexico City.

TYPE AND PARATYPE LOCALITY: Cueva de Jutxlahuaca, Guerrero, Mexico.

Orthoporus hoctunicolens Chamberlin 1938a, p. 170.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Hoctun Cave, Hoctun, Yucatan, Mexico.

Orthoporus kiemi Loomis 1962, p. 48.

TYPE: U.S. Nat. Mus., no. 2778.

TYPE LOCALITY: Cave on Hacienda San Bernardo, 5 mi. from San Bernardo Sta., railroad between Merida and Maxcanu, Yucatan, Mexico.

Orthoporus leius Chamberlin 1943b, p. 14.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Esperanza, Guanajuato, Mexico.

Orthoporus lenonus Chamberlin 1943b, p. 14.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Two mi. north of Lenon, Tamaulipas, Mexico.

Orthoporus leonicus Chamberlin 1941d, p. 252.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Ojo de Agua, Sabinas Hidalgo, Nuevo León, Mexico.

OTHER LOCALITIES: Garcia, Nuevo León; Xilitla, San Luis Potosí, Mexico (Chamberlin 1943b).

Thought possibly a synonym of *O. punctilliger* (itself a synonym of *O. ornatus)* by Loomis 1963, p. 124.

Orthoporus linares Chamberlin 1943b, p. 15.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Linares, Nuevo León, Mexico.

Orthoporus luchilicolens Chamberlin 1938a, p. 169.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Luchil Cave, Tixcacal, Yucatan, Mexico.

Orthoporus margarites (Chamberlin).

Diaporus margarites Chamberlin 1946, p. 146, Loomis 1964a, p. 131.

TYPE: American Mus. Nat. Hist.

TYPE AND PARATYPE LOCALITY: San José Island, Pearl Islands, Panama Prov., Panama.

Orthoporus mimus Chamberlin 1943b, p. 15.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Nineteen mi. north of El Limón, Tamaulipas, Mexico.

Orthoporus montezumae (Saussure).

Julus montezumae Saussure 1859, p. 330.

?Spirostreptus montezumae Saussure and Humbert 1872, p. 69; Pocock 1909, p. 99.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Orizaba, Mexico.

OTHER LOCALITY: Veracruz, Mexico (Saussure and Humbert 1872).

Orthoporus mundus Chamberlin 1942a, p. 60.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Apatzingan, La Majada, Michoacan, Mexico.

Orthoporus nesiotes Chamberlin 1923a, p. 405.

TYPE: Mus. California Acad. Sci., no. 1261.

TYPE AND PARATYPE LOCALITY: South end of Tiburon Island, Gulf of California, Sonora, Mexico.

Suspected by Loomis 1963, p. 125, of being a synonym of *O. punctilliger*, itself a synonym of *O. ornatus*.

Orthoporus nicaraguanus Chamberlin 1925, p. 38.

TYPE: Mus. Comp. Zool.

TYPE LOCALITY: Nicaragua.

Orthoporus omalopyge (Brolemann). Return to original combination.

Spirostreptus (Scaphiostreptus) omalopyge Brolemann 1905, p. 365; Pocock 1909, p. 103.

Diaporus omalopyge Chamberlin 1922, p. 19.

TYPE: Mus. Nat. Hist. Natur., Paris (H).

TYPE LOCALITY: La Palma, Costa Rica.

PARATYPE LOCALITIES: Carillo and Cache, Costa Rica.

OTHER LOCALITY: El Gallito, Costa Rica (Chamberlin 1933).

Orthoporus ornatus (Girard).

Julus ornatus Girard 1853, p. 274.

Spirobolus ornatus Wood 1865, p. 208.

Spirostreptus montezumae Bollman 1888, p. 343.

Orthoporus punctilliger Chamberlin 1923a, p. 405.

Orthoporus wichitanus Chamberlin 1931, p. 99; Causey 1964b, p. 177.

Orthoporus vallicolens Chamberlin 1943c, p. 149; Loomis 1963, p. 124.

Orthoporus producens Chamberlin 1947a, p. 11; Loomis 1963, p. 124.

Orthoporus crotonus Chamberlin 1952b, p. 24; Loomis 1963, p. 124.

Orthoporus arizonicus Loomis 1953, p. 418; Loomis 1963, p. 124.

TYPE: Probably no longer existing.

TYPE LOCALITY: Determined as probably in Randal Co., Texas, by Causey, Tulane Stud. Zool., vol. 2, pp. 67-8, 1954.

OTHER LOCALITIES: A very widely distributed species; in the United States known from Arizona, New Mexico, Oklahoma, and Texas; in Mexico from Chihuahua, Nuevo León, San Luis Potosí, Sonora, and Tamaulipas.

Orthoporus otomitus (Saussure).

Julus otomitus Saussure 1859, p. 330.

Spirostreptus otomitus Saussure and Humbert 1872, p. 69; Pocock 1909, p. 100.

TYPE: Mus. Hist. Nat. Geneve (H).

TYPE LOCALITY: Córdoba, Veracruz, Mexico (first locality named).

PARATYPE LOCALITIES: Veracruz and San Andrea Tuxtla, Veracruz, Mexico.

Orthoporus palmensis (Brolemann).

Spirostreptus (Scaphiostreptus) typotopyge palmensis Brolemann 1905, p. 362; Pocock 1909, p. 96.

TYPE AND PARATYPE LOCALITY: La Palma, Costa Rica.

Orthoporus paxillicauda Loomis 1962, p. 50.

TYPE: U.S. Nat. Mus., no. 2779.

TYPE AND PARATYPE LOCALITY: Zapotilla, Lake Izabal, Guatemala.

Orthoporus rodriguezi (Brolemann).

Spirostreptus rodriguezi Brolemann 1900, p. 104; Pocock 1909, p. 103.

TYPE: Mus. Nat. Hist. Natur., Paris (H).

TYPE AND PARATYPE LOCALITY: Guatemala.

Orthoporus rodriguezi coriaceus (Brolemann).

Spirostreptus rodriguezi coriaceus Brolemann 1900, p. 106; Pocock 1909, p. 103.

TYPE: Mus. Nat. Hist. Natur., Paris (H).

TYPE LOCALITY: Guatemala.

Orthoporus rugiceps (Attems). New combination.

Scaphiostreptus rugiceps Attems 1950, p. 240.

TYPE: Naturh. Mus. Wien. (H)

TYPE AND PARATYPE LOCALITY: Mexico.

Orthoporus rugiceps reimoseri (Attems). New combination.

Scaphiostreptus rugiceps reimoseri Attems 1950, p. 241.

TYPE: Naturh. Mus. Wien. (H)

TYPE LOCALITY: Bebedero, Costa Rica.

Orthoporus salvadoricus (Kraus). New combination.

Scaphiostreptus salvadoricus Kraus 1954, p. 337.

TYPE: Senckenberg Mus., Frankfurt.

TYPE LOCALITY: La Rabida, San Salvador, Dept. San Salvador, El Salvador.

PARATYPE LOCALITIES: Departments of Santa Ana, Cuscatlan, San Vincente, and Usulutan, El Salvador.

Orthoporus solicolens Chamberlin 1938a, p. 170.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Hoctun Cave, Hoctun, Yucatan, Mexico.

Orthoporus striatulus Pocock 1909, p. 99.

Orthoporus chiapasus Chamberlin 1943b, p. 12; Causey 1964b, p. 179.

TYPE: British Mus. Now lost (H).

TYPE LOCALITY: Tuxtla, Mexico. Causey, loc. cit., states that "The records indicate that this is surely Tuxtla Gutiérrez," Chiapas.

OTHER LOCALITIES: Huixtla, Chiapas (Chamberlin 1943b); Tuxtla Gutiérrez and vicinity, also San Jerónimo, near Tapachula, Chiapas; Pan-American Highway near Chiapas-Oaxaca boundary, Tehuantepec, Oaxaca; west bank of Rio de Sierra, Jalapa, Tabasco (Causey 1964b).

Orthoporus teapensis Pocock 1909, p. 97.

TYPE: British Mus.

TYPE AND PARATYPE LOCALITY: Teapa, Tabasco, Mexico.

OTHER LOCALITIES: Tuxtla Gutiérrez and vicinity, probably also at San Jerónimo, near Tapachula, Chiapas; Pan-American highway near Oaxaca-Chiapas boundary, and Tehuantepec, Oaxaca, Mexico (Causey 1964b).

Orthoporus tehuacanus Chamberlin 1952b, p. 26.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Tehuacan, Puebla, Mexico.

Orthoporus texicolens Chamberlin 1938b, p. 207.

Scaphiostreptus texicolens Chamberlin 1952b, p. 28; Causey 1964b, p. 180.

Orthoporus victorianus Chamberlin 1943b, p. 18; Causey 1964b, p. 180.

TYPE LOCALITY: Edinburg, Hidalgo Co., Texas.

OTHER RECORDS: Helotes, Bexar Co., Texas; 3 mi. South of Victoria, and 5 mi. west of El Forlón, Tamaulipas, Mexico (Chamberlin 1943b); Brownsville, Cameron Co., Texas (Chamberlin 1953); Hidalgo, Hidalgo Co., Texas (Loomis 1963). One or two localities in each of the following Texas counties—Cameron, Jim Wells, Karnes, San Patricio, Uvalde, Victoria, and Wilson (Causey 1964b).

Orthoporus tizamensis Chamberlin 1938a, p. 168.

TYPE: Collection of R. V. Chamberlin

TYPE LOCALITY: Muruztum Cave, Tizamin, Yucatan, Mexico.

Orthoporus torreonus Chamberlin 1943b, p. 16.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Twenty mi. southwest of Torreon, Coahuila, Mexico.

PARATYPE LOCALITIES: Same and 15 mi. southwest of Torreon, also 15 mi. west of Torreon, Coahuila, Mexico.

Orthoporus trisulcatus (Daday). New combination.

Spirostreptus trisulcatus Daday 1889, p. 127.

TYPE: Hungarian Nat. Mus., Budapest? (H)

TYPE LOCALITY: Panama.

Orthoporus typotopyge (Brolemann). New combination.

Spirostreptus (Scaphiostreptus) typotopyge Brolemann 1905, p. 359; Pocock 1909, p. 95.

Diaporus typotopyge Chamberlin 1922, p. 19.

TYPE: Mus. Nat. Hist. Natur., Paris (H).

TYPE LOCALITY: Probably Surubres, near San Mateo, Costa Rica.

PARATYPE LOCALITIES: Cache, Cariblanco, La Palma, Costa Rica.

Orthoporus ugmalanus Chamberlin 1943b, p. 17.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Ugmala, Guerrero, Mexico.

PARATYPE: Without locality.

Orthoporus unciferens Chamberlin 1952b, p. 27.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: San Marcos, El Porvenir, Guatemala.

Orthoporus unicus Causey 1954, p. 55.

TYPE: Illinois St. Nat. Hist. Surv., Urbana.

TYPE LOCALITY: Two mi. northwest of Rancho Nuevo, Chiapas, Mexico.

PARATYPE LOCALITIES: Same and Trinitaria, Chiapas, Mexico.

Orthoporus zizicolens (Chamberlin). New combination.

Gymnostreptus zizicolens Chamberlin 1938a, p. 168.

TYPE: Collection of R. V. Chamberlin.

TYPE AND PARATYPE LOCALITY: Ziz Cave, Oxkutzcab, Yucatan, Mexico.

Superorder COLOBOGNATHA

The two most recent revisionary papers on the superorder Colobognatha are Verhoeff 1941 and Attems 1951. The first proposes numerous nomenclatorial changes, principally in genera of the family Siphonophoridae, and adds no new species from the area encompassed by this list. Attems' paper is a revision of the superorder but it omitted mention of so many previously described genera, and contained such obvious errors, as well as departures from the rules of nomenclature, that it is a most unsatisfactory treatment. To produce a workable and acceptable classification, both papers need a thorough study by someone with a large reference collection of species at hand. The proposals in these papers have been limited here to inclusion of the two species described by Attems from Costa Rica.

KEY TO THE ORDERS OF COLOBOGNATHA

1. Gnathochilarium having the usual parts represented in millipeds; segments with a distinctly impressed median sulcus.
PLATYDESMIDA

Gnathochilarium represented by a triangular plate, or the usual divisions indistinctly indicated at most; segments without an impressed median sulcus.....POLYZONIIDA

Order PLATYDESMIDA

KEY TO THE FAMILIES OF PLATYDESMIDA

1. Sterna narrow, the coxae close together separated only by a prominent sternal process ..... ANDROGNATHIDAE

Sterna very broad and lacking median processes; coxae very widely separated..... PLATYDESMIDAE

Family ANDROGNATHIDAE

Genus BRACHYCYBE Wood 1864, p. 187.

TYPE SPECIES: *Brachycybe lecontei* Wood, by monotypy.

Brachycybe producta Loomis 1936, p. 367.

TYPE AND PARATYPE LOCALITY: Baja California, Mexico.

OTHER LOCALITY: Vernal Falls, Yosemite National Park, Mariposa Co., California, (Causey 1955).

Family PLATYDESMIDAE

Genus **DESMETHUS** Chamberlin 1922, p. 6.

TYPE SPECIES: *Desmethus setifer* Chamberlin, by original designation.

Desmethus chiriquensis Loomis 1964a, p. 126.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Cerro Punta, Chiriquí Prov., Panama.

Desmethus setifer Chamberlin 1922, p. 6.
TYPE: U.S. Nat. Mus., no. 814.
TYPE AND PARATYPE LOCALITY: San Rafael, Guatemala

Genus **PLATYDESMUS** Lucas 1843, p. 51.

Piestodesmus Lucas 1849, p. 598; Pocock 1903, p. 42.
TYPE SPECIES: *Platydesmus polydesmoides* Lucas, by monotypy.

Platydesmus analis Pocock 1903, p. 46.
TYPE: British Mus.
TYPE LOCALITY: ?Guatemala City, Guatemala.

Platydesmus calus Chamberlin 1952b, p. 30.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Veracruz Penuela, Veracruz, Mexico.
PARATYPE LOCALITIES: Same, and El Fortín, Veracruz, Mexico.

Platydesmus cerrobius Chamberlin 1942a, p. 57.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Cerro Tancítaro, Michoacan, Mexico.

Platydesmus corzoi Chamberlin 1943b, p. 10.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Rio Frio, D. F., Mexico.
PARATYPE LOCALITIES: Same, and Desierto de los Leones, D.F.; Rio Frio, Puebla, Mexico.

Platydesmus crucis Chamberlin 1952b, p. 31.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Las Vigas, Veracruz, Mexico.

Platydesmus excisus Chamberlin 1952b, p. 31.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Sierra Santa Elena, Guatemala.
PARATYPE LOCALITIES: Same and Tecpan, Guatemala.

Platydesmus guatemalensis Brolemann 1900, p. 13.
Platydesmus guatemalae Chamberlin 1922, p. 6.
TYPE: Mus. Nat. Hist. Natur., Paris (H).
TYPE LOCALITY: Guatemala.

Platydesmus hirudo Pocock 1903, p. 46.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.

Platydesmus interruptus Chamberlin 1922, p. 5.
TYPE: U.S. Nat. Mus, no. 812.
TYPE LOCALITY: San Juan Pueblo, Honduras.
PARATYPE LOCALITY: Same and La Ceiba, Honduras.

Platydemus interruptus simplex Chamberlin 1922, p. 5.
TYPE: U.S. Nat. Mus., no. 813.
TYPE LOCALITY: La Ceiba, Honduras.
PARATYPE LOCALITIES: Same and San Juan Pueblo, Honduras.

Platydesmus lankesteri Brolemann 1905, p. 354.
TYPE: Mus. Nat. Hist. Natur., Paris (H).
TYPE AND PARATYPE LOCALITY: El Reventado, Costa Rica.
OTHER LOCALITIES: Hacienda Buena Vista, Volcán Izalco, Dept. Sonsonate; Finca Alicante, Cumbre de Santa Tecla, Dept. La Libertad, El Salvador, (Kraus 1954b).

Platydesmus lineatus Pocock 1903, p. 46.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Volcán de Orizaba, Mexico.

Platydesmus marmoreus Pocock 1903, p. 47.
TYPE: British Mus.
TYPE LOCALITY: Cholhuitz, Guatemala.
OTHER LOCALITY: Monte Cristo, Matapan Mts., Dept. Santa Ana, El Salvador (Kraus 1954b).

Platydesmus mesomelas Pocock 1903, p. 46.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Omilteme, Guerrero, Mexico.

Platydesmus mexicanus Humbert and Saussure 1869, p. 156.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE LOCALITY: Eastern Cordillera, Mexico.
PARATYPE LOCALITIES: Same and Sierra de Agua, Mexico.

Platydesmus moreleti (Lucas).
Piestodesmus moreletii Lucas 1849, p. 599; Pocock 1903, p. 48.
TYPE: Location unknown (H).
TYPE AND PARATYPE LOCALITY: Tabasco, Mexico.

Platydesmus nicaraguae Chamberlin 1956, p. 158.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Musawas, Waspuc River, Nicaragua.

Platydesmus nicaraguanus Chamberlin 1925, p. 37.
TYPE: Mus. Comp. Zool.
TYPE LOCALITY: Nicaragua.

Platydesmus perditus Chamberlin 1952b, p. 33.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Guatemala.

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Platydesmus perpictus Pocock 1903, p. 47.
TYPE: British Mus.
TYPE LOCALITY: Senahú, Guatemala.
PARATYPE LOCALITIES: Cholhuitz, Guatemala, and Belize, British Honduras.
OTHER LOCALITY: Chichivac, near Tecpan, Guatemala (Chamberlin 1952b).

Platydesmus polydesmoides Lucas 1843, p. 52.
TYPE: Location unknown (H).
TYPE LOCALITY: Guatemala.

Platydesmus subovatus Loomis 1964a, p. 127.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Almirante, Bocas del Toro Prov., Panama.

Platydesmus taureus Loomis 1964a, p. 128.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Negra Creek, Almirante, Bocas del Toro Prov., Panama.

Platydesmus triangulifer Pocock 1903, p. 45.
TYPE: British Mus.
TYPE AND PARATYPE LOCALITY: Volcán de Acatenango, Guatemala.
OTHER LOCALITY: Izabal, Escobas, Guatemala (Chamberlin 1952b).

Genus RHAPHONOTUM Attems 1951, p. 198.

TYPE SPECIES: *Rhaphonotum tuberculosum* Attems, by present designation.

Rhaphonotum reimoseri Attems 1951, p. 198.
TYPE: Naturh. Mus. Wien. (H)
TYPE AND PARATYPE LOCALITY: Costa Rica.

Rhaphonotum tuberculosum Attems 1951, p. 198.
TYPE: Naturh. Mus. Wien. (H)
TYPE AND PARATYPE LOCALITY: Hambourg Farm, Costa Rica.

Order POLYZONIIDA

KEY TO THE FAMILIES OF POLYZONIIDA

1. Eyes absent; head narrowed forward or prolonged into a beak; prozonites decidedly smaller than the metazonites producing constrictions between the metazonites ..... SIPHONOPHORIDAE
   One or more ocelli each side; head not strongly narrowed forward or produced into a beak; prozonites not forming constrictions between the metazonites ..... POLYZONIIDAE

Family POLYZONIIDAE

Genus **SIPHONOTUS** Brandt 1837, p. 179.

TYPE SPECIES: *Siphonotus brasiliensis* Brandt, by monotypy.

Siphonotus angulifer Chamberlin 1940a, p. 16.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Barro Colorado Island, Canal Zone.

OTHER LOCALITIES: Summit (Chamberlin 1947c); Barro Colorado Island, Las Cascadas, Monte Lirio, Piña area, Canal Zone (Loomis 1961).

Siphonotus centralis Chamberlin 1940a, p. 16.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Barro Colorado Island, Canal Zone.

Siphonotus panamanus Loomis 1964a, p. 122.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Chilibrillo Cave, near Chilibre, Panama Prov., Panama.

PARATYPE LOCALITIES: Same, and Madden Forest Preserve, Canal Zone.

Family SIPHONOPHORIDAE

Genus **SIPHONACME** Cook and Loomis 1928, p. 7.

TYPE SPECIES: *Siphonacme lyttoni* Cook and Loomis, by original designation.

Siphonacme pseustes (Chamberlin).

Siphonophora pseustes Chamberlin 1923a, p. 400; Cook and Loomis 1928, p. 10.

TYPE: Mus. California Acad. Sci., no. 1258.

TYPE LOCALITY: San Pedro Bay, Sonora, Mexico.

Genus **SIPHONOCYBE** Pocock 1903, p. 50.

TYPE SPECIES: *Siphonophora harti* Pocock, by original designation.

Siphonocybe laticollis Loomis 1964a, p. 122.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Barca area, Finca Lerida, near Boquete, Chiriquí Prov., Panama.

PARATYPE LOCALITIES: Finca Lerida, and Cerro Punta, Chiriquí Prov., Panama.

Siphonocybe pilosa Loomis 1961, p. 118.

TYPE: U.S. Nat. Mus., no. 2652.

TYPE LOCALITY: Ft. Sherman, Canal Zone.

PARATYPE LOCALITIES: Same, and Piña area, Canal Zone.

Genus **SIPHONOPHORA** Brandt 1837, p. 179.

TYPE SPECIES: *Siphonophora portoricensis* Brandt, by subsequent designation of Silvestri 1896b.

Siphonophora aviceps Loomis 1961, p. 119.

TYPE: U.S. Nat. Mus., no. 2653.

TYPE LOCALITY: Barro Colorado Island, Canal Zone.

PARATYPE LOCALITIES: Same and Piña area, Canal Zone; Juan Días, Panama Prov., Panama.

Siphonophora barberi Chamberlin 1922, p. 7.

TYPE: U.S. Nat. Mus., no. 815.

TYPE AND PARATYPE LOCALITY: Jocalo, Guatemala.

Siphonophora brevicornis Pocock 1903, p. 50.

TYPE: British Mus.

TYPE LOCALITY: Volcán de Agua, Guatemala.

PARATYPE LOCALITIES: Same and doubtfully Omilteme, Guerrero, Mexico.

Siphonophora coclensis Loomis 1964a, p. 124.

TYPE: Chicago Nat. Hist. Mus.

TYPE LOCALITY: Trail to Las Minas, El Valle, Coclé Prov., Panama.

Siphonophora conicornis Chamberlin 1952b, p. 34.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Izabal, Escobas, Guatemala.

Siphonophora cornuta Pocock 1903, p. 50.

TYPE: British Mus.

TYPE LOCALITY: Volcán de Acetenango, Guatemala.

PARATYPE LOCALITIES: Same and Volcán de Agua, Guatemala.

Siphonophora costaricae Chamberlin 1914, p. 186.

TYPE: Acad. Nat. Sci. Philadelphia.

TYPE LOCALITY: Juan Viñas, Costa Rica.

Siphonophora fallens Chamberlin 1922, p. 8.

TYPE: U.S. Nat. Mus., no. 817.

TYPE AND PARATYPE LOCALITY: Joyabaj-Chiche, Guatemala.

OTHER LOCALITY: Chamberlin 1940a reported specimens from Barro Colorado Island, Canal Zone, as this species but it is more likely they were *S. aviceps* Loomis 1961, p. 121.

Siphonophora fallens annecta Chamberlin 1952b, p. 34.

TYPE: Collection of R. V. Chamberlin.

TYPE LOCALITY: Volcán Tajumulco, Guatemala.

Siphonophora globiceps Pocock 1903, p. 51.

TYPE: British Mus.

TYPE LOCALITY: Purulhá, Guatemala.

OTHER LOCALITIES: Santa Rosa (Chamberlin 1922); Chichivac (Chamberlin 1952b), Guatemala.

Siphonophora mexicana Humbert and Saussure 1869, p. 155.
TYPE: Mus. Hist. Nat. Geneve (H).
TYPE LOCALITY: Eastern Cordillera, Mexico.
PARATYPE LOCALITY: Sierra de Agua, near Orizaba, Mexico.
Siphonophora montana Loomis 1964a, p. 125.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Cerro Punta, Chiriquí Prov., Panama.
PARATYPE LOCALITY: Finca Lerida, near Boquete, Chiriquí Prov., Panama.
Siphonophora panamensis Loomis 1961, p. 121.
TYPE: U.S. Nat. Mus., no. 2654.
TYPE LOCALITY: Piña area, Canal Zone.
PARATYPE LOCALITIES: Barro Colorado Island, Frijoles, Monte Lirio, Ft. Sherman, Canal Zone. Alahjuela and Juan Días, Panama Prov.; El Valle, Coclé Prov., Panama.
Siphonophora parvula Loomis 1964a, p. 125.
TYPE: Chicago Nat. Hist. Mus.
TYPE LOCALITY: Barca area, Finca Lerida, near Boquete, Chiriquí Prov., Panama.
PARATYPE LOCALITIES: Same and adjacent areas; Finca Palo Santo, near Nueva California, Chiriquí Prov., Panama.
Siphonophora progressor Chamberlin 1922, p. 9.
TYPE: U. S. Nat. Mus., no. 818.
TYPE AND PARATYPE LOCALITY: Progreso, Honduras.
Siphonophora sabachana Chamberlin 1938a, p. 166.
TYPE: Collection of R. V. Chamberlin.
TYPE LOCALITY: Sabacha Cave, Tekax, Yucatan, Mexico.
Siphonophora telana Chamberlin 1922, p. 7.
TYPE: U.S. Nat. Mus., no. 816.
TYPE LOCALITY: Tela, Honduras.
Siphonophora trifini Kraus 1954b, p. 343.
TYPE: Senckenberg Mus., Frankfurt.
TYPE AND PARATYPE LOCALITY: Monte Cristo, Metapan Mts., Dept. Santa Ana, El Salvador.
Siphonophora valeri Chamberlin 1933, p. 24.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Pavas, Costa Rica.
Siphonophora vera Chamberlin 1952b, p. 34.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Las Vigas, Veracruz, Mexico.

Genus BONETESMUS Chamberlin 1942b, p. 11 (see page 28)

TYPE SPECIES: *Bonetesmus verus* Chamberlin, by original designation.
Bonetesmus verus Chamberlin 1942b, p. 11.
TYPE: Collection of R. V. Chamberlin.
TYPE AND PARATYPE LOCALITY: Gruta de Atoyac, Vera Cruz, Mexico.

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